


1991

## College of Technology, Bolton Street Prospectus 1991-92

City of Dublin Vocational Education Committee

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91/92

DUBLIN INSTITUTE OF  
TECHNOLOGY



COLLEGE OF TECHNOLOGY  
BOLTON STREET

prospectus

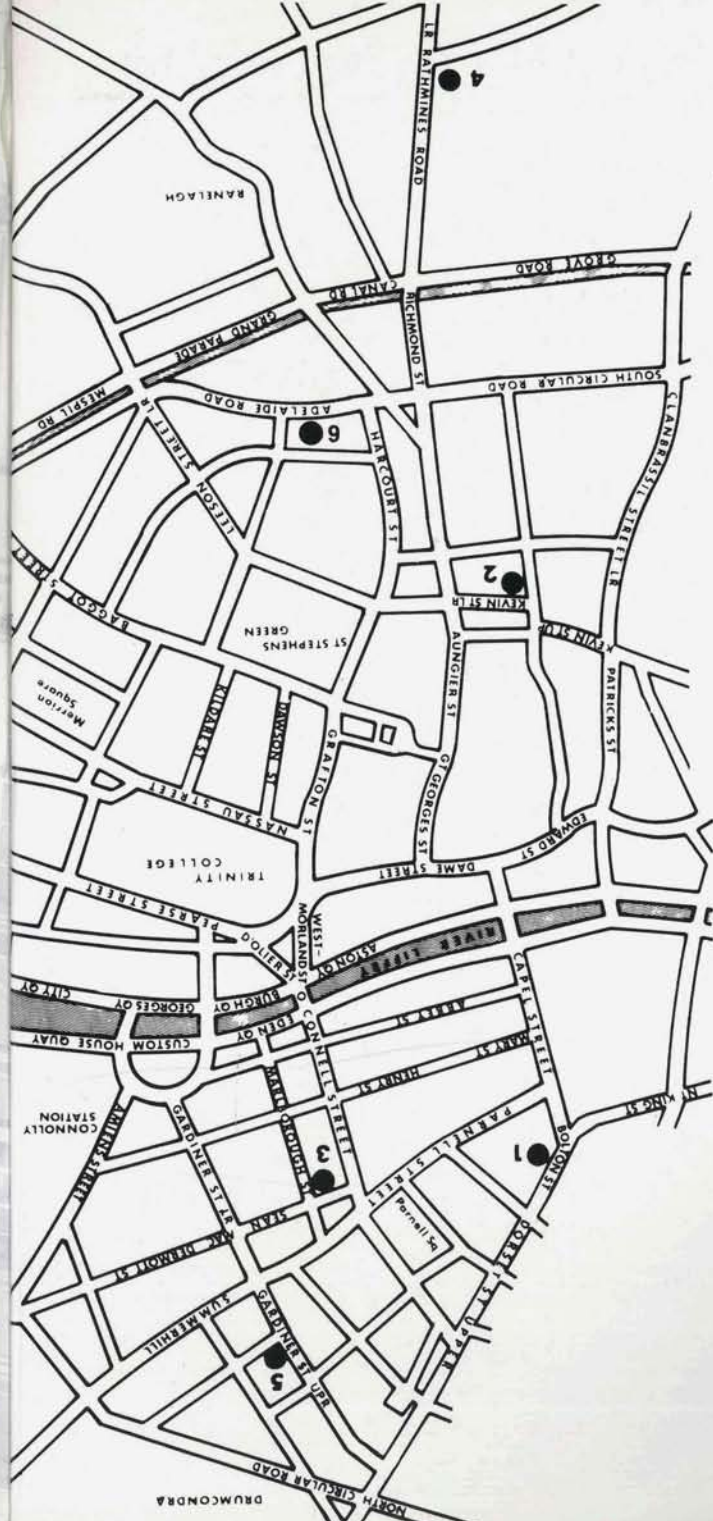
# PROSPECTUS

CITY OF DUBLIN  
VOCATIONAL EDUCATION COMMITTEE  
DUBLIN INSTITUTE  
OF TECHNOLOGY

## COLLEGE OF TECHNOLOGY BOLTON STREET

Location of Colleges shown:

1. College of Technology  
Dublin 1  
Bolton Street  
Dublin 1  
Telephone 727177
2. College of Technology  
Dublin 8  
Kevin Street  
Dublin 8  
Telephone 757541
3. Dublin College of Catering  
and Hotel Management  
Cathal Brugha Street  
Dublin 1  
Telephone 747886
4. College of Commerce  
Rathmines  
Dublin 6  
Telephone 970666
5. College of Marketing & Design  
Mountjoy Square  
Dublin 1  
Telephone 363000
6. College of Music  
Chatham Row  
Dublin 2  
Telephone 74564
7. Dublin Institute of Technology  
14 Upper Mount Street  
Dublin 2  
Telephone 766584





### Principal of College

MICHAEL O'DONNELL, BE, BComm, MEconSc, Eurlng, CEng, FIEI

### Secretary/Registrar

MICHAEL J. MARNANE, BComm, DPA, MACRA

### CENTRES:

College of Technology, Bolton Street, Dublin 1.  
School of Trades, Yarnhall Street, Dublin 1.  
Annex 23-27 Beresford Street, Dublin 7

Tel: 727177  
Fax: 727879  
Tel: 727157

*Enquiries should be directed to:*  
THE SECRETARY/REGISTRAR.

### CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE:

Administrative Offices: Town Hall, Ballsbridge, Dublin 4.  
Chief Executive Officer: W.J. Arundel, BComm, HDip.

Tel: 680614

The information in this Prospectus is intended as a guide for persons seeking admission to the College and shall not be deemed to constitute a contract, or the terms thereof, between the College and a student or any third party. The college reserves the right to change or modify any of the courses or information given in the Prospectus without prior notice.

Published in August 1991

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## ABOUT THE CONTENTS

This Prospectus has been prepared in four sections for the convenience of its readers.

**Section 1** pages 1.2-1.39 provides general information about the College, its operations, management and staffing.

**Section 2** pages 2.1-2.55 provides information about the whole-time Degree, Diploma/Certificate and other courses offered by the College and the method of applying for them.

**Section 3** pages 3.1-3.31 provides information about Apprenticeship and the various apprentice courses offered by the College.

**Section 4** pages 4.1-4.48 provides information about the Part-time Day and Evening and Continuing Education courses offered by the College.

The index for each Section is located at its beginning and the different Sections are colour coded as follows:

Section 1:	Blue
Section 2:	Red
Section 3:	Purple
Section 4:	Green



## CALENDAR — SESSION 1991/92

<b>1991</b>		<b>Term 1</b>
SEPT.	Monday 2nd	Commencement of Session.
	Tuesday 3rd	Commencement of Printing Apprenticeship Courses.
		Commencement of Day Release Apprenticeship Courses.
	Monday 9th	Interviews and enrolments for part-time and evening courses commence except where otherwise arranged.
	Monday 16th	Wholetime classes commence except where otherwise arranged.
	Monday 23rd	Part-time and evening classes commence except where otherwise arranged.
DEC.	Friday 20th	Final class meetings of first term.
<b>1992</b>		<b>TERM 2</b>
JAN.	Tuesday 7th	All classes resume.
FEB.	Saturday 1st	Closing date for all Irish and other EC applications to wholetime courses for 1992/93 session.
APRIL	Tuesday 14th	Final class meetings of second term except where otherwise arranged.
		<b>TERM 3</b>
APRIL	Monday 27th	All classes resume.
MAY	Monday 18th	Commencement of College Summer Examination programme except where otherwise arranged.
JUNE	Friday 19th	All classes terminate except where otherwise arranged.

Classes will close on public holidays during the session (viz. 28th October; 17th March; 1st June) and on Church Holidays (viz. November 1st; May 28th; June 18th) except where otherwise arranged.

**NOTE:** This Calendar is subject to alteration during the Session.

## INSTITIÚID TEICNEOLAÍOCHTA BHAILE ÁTHA CLIATH

### AN COLÁISTE TEICNEOLAÍOCHTA SRÁID BHOLTÚIN

#### RÉAMHRÁ

Is cuid d'Institiúid Teicneolaíochta Bhaile Átha Cliath an Coláiste seo. Cuireadh an t-Institiúid ar bun sa bhliain 1978 chun na coláistí den tríú leibhéal atá faoi chúram Choiste Gairm-Oideachais Cathair Átha Cliath a chomhnascadh. San Institiúid tá breis is 1,500 foireann teagaisc agus 23,000 mac léinn.

Tá an Coláiste seo faoi stiúrá ag Comhairle an Choláiste, fo-choiste den Choiste Gairm-Oideachais. Tá scoileanna sa Choláiste, mar a leanas:—

Ailtíreacht, Suirbhéireacht agus Tógálaíocht  
Innealtóireacht  
Clódóireacht  
Clódóireacht  
Cardanna

Tá cúrsaí lán-aimsire agus páirt-aimsire ar fáil ar leibhéal na teicneolaíochta, ticneoireachta agus cardanna. Tá deontas Stáit agus scoláireachtaí iníochta, i gcásanna áirithe, do mhic leinn.

San mbuneolaire seo, tá cur síos ar na cúrsaí éagsúla, na cáillíochtaí iontrála agus na cáillíochtaí gur féidir a bhaint amach (teastas, barrántas, comhaltachas i gcumainn ghairmiúla nó céim ollscoile).

Tagann na dálaí ó gach cuid den tír, cuid acu ón nGaeltacht, cuid eile ón iasacht. Tá súil ag lucht an gColáiste go nglachfaidh na mic léinn páirt gníomhach is saol an Choláiste.



## INTRODUCTION TO THE COLLEGE

### Historical Note

In 1887 the first City of Dublin Technical School was established in Kevin Street and from that initiative the present system of schools and colleges developed. The College in Bolton Street was opened in 1911 to provide education in Building, Engineering and Printing, lines of specialisation which have continued down to the present day. The first whole-time day courses commenced in 1920 with the inauguration of an apprentice Scholarship Scheme. With the establishment of an Irish Government, technical education came within the aegis of the Department of Education. A Commission which was established in 1926 made recommendations for developments which led to the Vocational Education Act of 1930. The system of schools and colleges expanded in succeeding decades under the City of Dublin Vocational Education Committee, and the Bolton Street College was enlarged with additional buildings in 1958, 1963, 1981 and 1987. The development of professional and technician courses began in the 1940's and over the years these have gained the recognition of professional and academic bodies in Ireland and other countries.

### Dublin Institute of Technology

In 1978 the Dublin Institute of Technology was established by the City of Dublin Vocational Education Committee to co-ordinate the work of its six colleges. Bolton Street is the largest of the colleges; the other constituent Colleges are the College of Technology Kevin Street, the College of Commerce, the Dublin College of Catering, the College of Music and the College of Marketing and Design. Its work and awards have attained wide national and international recognition from academic and professional bodies and other appropriate employer organisations.

Over 1,500 teaching staff are primarily concerned with teaching 23,000 students attending wholtime and part-time third level and apprentice courses. The Institute is involved in research and development, and there is a growing demand for its advisory and consultative services.

The Colleges of the Institute have played a leading role in the evolution of technical and technological education in Ireland and continue to be involved with the latest developments in technology and commerce, maintaining their commitment to industrial, economic and cultural development.

### College of Technology Bolton Street

The Minister for Education introduced the Dublin Institute of Technology Bill to Dáil Éireann in June 1991. When this is enacted it is expected that it will establish DIT as a single Institute and provide it with greater autonomy. It should also confirm its capacity to make its own academic awards and engage in research and consultancy activities.

The College provides a wide range of courses on a full-time, part-time evening and block release basis, as well as some short courses. It has a total teaching establishment of 350 and now caters for more than 7,500 students. The College aims to provide an integrated system of education from craft apprenticeship to degree and professional levels in the sectors for which it has special responsibility. These include the Construction, Engineering, Printing and Transport industries and it plays an important national role in responding to their various needs.

### College Council

The general direction of the College is under the control of the College Council which is a sub-committee of the V.E.C. The Council consists of nine members nominated by the V.E.C., the Principal of the College, a member of academic staff elected by the staff and a student member nominated by the students' union. Its terms of reference include approval of annual estimates of expenditure, approval of the range of courses offered, staff and student matters, responsibility for buildings and other facilities, and generally examining any major proposals for the development of the College.

### College Executive Board

The College Executive Board helps in co-ordinating the work of the College and its academic programmes. It is comprised of the Principal, Heads of Schools, and Heads of Departments.

### College Academic Board

The Academic Board has responsibility for approving and monitoring course developments leading to College/DIT awards, including examinations and student admission requirements. It also has an important role in promoting research and developing College academic policy. Its membership is comprised of the Principal, Heads of Schools, Heads of Departments and other nominated members.

### Departmental Boards

Departmental Boards are concerned with the development of courses and facilities at Departmental level. There are Course Committees to advise on the development of major courses. There are also Advisory Committees for major disciplines which assist the College in keeping courses abreast of developments in their professional and industrial fields.



## Recent College Developments

A major new extension to the College was completed during the 1987/88 session significantly enhancing its accommodation and facilities. This included a new library with seating for 450 students; a major new restaurant with similar seating capacity, much improved student facilities including social areas, student shop, bank and first aid room; a large lecture theatre with 320 seats; and a range of drawing studios, classrooms, staff offices and other accommodation.

Further enhancements were implemented since then including the refurbishment of parts of the College vacated following the transfer of some activities to the Extension. These included a new staff common room, new Advanced Manufacturing and Building Science laboratories and further development of the College's computing facilities which are linked through high speed data circuits to a major central DIT computing facility located at the DIT offices at 14 Upper Mount Street.



The Minister for Education formally opening the major extension to the College in September 1989. Also included are Councillor Pat Carey, Chairman CDVEC; Alderman Sean Haughey, Lord Mayor of Dublin; Mr. Michael O'Donnell, College Principal; Mr. W.J. Arundel, CEO of CDVEC and Mr. Bertie Aherne, T.D., Minister for Labour.

## ADMISSION AND ENROLMENT

Before making an application for admission to any of the College's courses applicants should note the different procedures described briefly below for:

- (a) Wholetime courses
- (b) Apprentice courses
- (c) Part-time Day and/or Evening courses

### Wholetime Courses

Applications for entry into the First Year of all wholetime courses should be made through the CAO/CAS office before the specified closing date. Full details of the procedure are set out in Section 2 of this Prospectus or in the special Information Booklet on the Colleges wholetime courses which is an extract from it.

Successful applicants for wholetime courses will be notified in writing in early September and invited to register for the course immediately. Students attending for registration and enrolment are required to present the following documentation:

- (a) CAO/CAS offer notice showing bank stamp confirming that appropriate deposit or fee has been paid.
- (b) Three copies of a recent passport type photograph signed on the back.

The latest date for completing enrolment for classes commencing in the first term is 31st October or such earlier date as may be prescribed. Only in exceptional circumstances will applicants be admitted after that date and a late registration fee of £35 may be charged in addition to the normal fee at the discretion of the College.

**Apprenticeship Courses** Apprentices should write to or otherwise communicate with the appropriate Head of College Department or other officer responsible for courses relating to their trade specialisation and seek information as to enrolment dates and procedures.

### Part-time Day and Evening Courses

It is not necessary to make written application for admission to part-time and evening courses in advance of the enrolment date for the courses. Enrolment is scheduled to commence on 9th September 1991, and intending applicants should report in person to the college during the scheduled enrolment hours from 6.30 p.m. to 8.30 p.m. during that week.



### Student Identity Card

All students in the College are required to have a current College Identity Card which is issued when enrolment is completed. Students who were enrolled in the College in a previous session must surrender their outdated Identity Card before a new one is issued to them. The Identity Card is the property of the College and may be demanded by the College or its Officers at any time. A charge of £5 will be made for the replacement of a College Identity Card during the session and new photographs will be required.

### Change of Classes

Change of classes or courses may be made only through the College Registration Office with the consent and approval of the Head of Department.

### Change of Address or Employment

All students enrolled in the College are required to inform the College Registrations Office (Room 315) of any change in their address or employment.

College Courtyard.



## COURSE TUITION FEES

All students, other than apprentices, are required to pay the specified tuition and other fees on enrolment. Fees are payable before commencing attendance at classes and are not refundable except where a class or course does not form. An enrolment is not transferable from one student to another. The sole proof of enrolment in any class or course in the College is the official receipt for the class or course fee paid. The official receipt must be presented on first attendance at each class.

### Hardship Cases

In cases of hardship it may be possible to obtain remission of fees. Applications in this context should be made directly in confidence to the Principal stating the circumstances and if possible should be accompanied by a letter of support from someone familiar with the applicant (e.g. Clergyman).

### FEES FOR ACADEMIC YEAR 1991/92

#### (a) Irish and European Community Students

Wholetime Diploma/Degree Courses	B101; B121; B122; B123; B124; B125 B110; B111	*£995 *£800
Wholetime Technician Certificate Courses	B114; B115; B116; B120; B126; B127; B128; B130; B150; B160; B171	*£505
Wholetime Technician Diploma Courses	B102; B114; B115; B116; B126; B127; B128; B130; B131; B150	*£530
Part-time and Evening Courses	D2B; D41; D43C; D43M; D43V; D47; D120; D132; D174; D200	£192
Evening Courses	E71; E72; E81; E82; E141G E141D; E141E; E141F; E195C Other Evening Courses	£290 £200 £145
Post-graduate and Other Courses	D4A D8 E5 E6; E7	*£544 £1,050 *£800 *£520

#### (b) Overseas Students from Non-European Community Countries

All Wholetime courses	*£2,155
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\*Includes College examination fees — NCEA examination fees are extra where applicable.  
All Course and Examination Fees quoted are subject to revision.



## EXAMINATIONS AND AWARDS

### College Examinations

The College conducts its own examinations for a number of its professional and technician courses. These are moderated by external examiners and lead to College/DIT awards. The College also offers courses leading to examinations and awards of external bodies for which it is an approved examination centre.

Students are required to acquaint themselves with the examination and promotion regulations of the course for which they enrol. All enquiries about examinations should be directed to the College Examinations Office (Room 316).

### Examination Entry Regulations

An examination entry fee of £33.00 is payable in respect of College Sessional examinations and in the case of College Supplemental examinations a further fee of £33.00 is payable. Where examinations lead to an NCEA Certificate or Diploma, an additional fee is payable (for details see under National Council for Educational Awards).

Students should note that those not achieving a minimum average attendance of 75% in each subject of their course, without a satisfactory explanation, may be refused permission to sit College examinations.

### Closing Dates

The closing dates each year for receipt of College examination entry forms and fees are 31st January for the Summer or Sessional examinations and 20th July for the Autumn examinations. Applications for entry to examinations received after these closing dates will be considered only in exceptional circumstances and at the discretion of the College Examinations Executive Board. Such applications are subject to a late entry fee of £33.00. No applications will be considered if received later than 1st March for Summer examinations or 15th August for Autumn examinations.

### Promotion Requirements

Promotion to a higher year or stage in any subject is contingent on reaching the required standard in the Sessional examination in the lower grade. A candidate unsuccessful in a Sessional examination may be permitted to sit a Supplemental examination in the same session, where such is offered in accordance with the regulations established for the course. Candidates, who do not complete an examination in all subjects of the year or stage,

or who are required to submit additional work (e.g. project or thesis) for assessment before graduation or promotion to the next year of the course, must re-enter for the next examination before 31st January and pay the appropriate fees.

Students are required to submit regularly such project work and course work as may be prescribed by members of the academic staff and this will be taken into account in the assessments at the end of the session.

A laboratory notebook must be maintained by each student for laboratory classes. An assessment will be made at the end of the session of each student's progress in laboratory and experimental work which may form part of the Sessional examination in that subject.

### General Examination Information

Candidates will be admitted to the Examination Room only on production of the Identity Card issued by the College in addition to the appropriate admission letter which is issued when and if an application to sit the examination is approved by the College.

Students should note carefully Examination Rules and Regulations which are printed on the Examination Entry forms and Examination Timetables.

### Examination Rechecks

Students seeking a re-check of a College examination result should submit a written request, within one week of the posting of provisional results, specifying the grounds on which the request is made. A charge of £5.00 per subject is payable.

### Examination Appeals

Students wishing to appeal against a College examination result must submit a formal written application on the standard form, available from the College Examinations Office, within two weeks of the publication of provisional results. Formal appeals must be accompanied by a fee of £33.00 and be submitted to the Principal or Examinations Secretary. The College accepts requests for rechecks and appeals on the understanding that it may not be in a position to inform the student of the outcome prior to the date for entry or for sitting a Supplemental Examination.

### National Council for Educational Awards

The NCEA was established by the Government in 1972 and awards appropriate qualifications to students who successfully complete courses of study which it has approved. Students pursuing a number of College Certificate and Diploma courses receive NCEA awards in addition to College Awards. Additional examination entry fees are payable in respect of these awards as follows:— First Stage £44.00, Certificate stage £44.00 and Diploma Stage £56.00. These fees are subject to revision.



### University of Dublin Degree Awards

The City of Dublin Vocational Education Committee and the University of Dublin have entered into a formal agreement by which degree awards of the University are available to students of the College who successfully complete certain courses in Architecture, Engineering and Surveying. They are required to make application for them to the University by completing appropriate documentation and paying the specified commencement fees. Details relating to the awards are given under the individual course entries.

### Other Examinations

The college is a centre for a number of external examinations including those of the Department of Education and the City and Guilds of London Institute. Application for entry to these examinations must be made through the College Office in accordance with the closing dates as indicated on College Notice Boards.

In relation to the examinations of professional and other external bodies, students are advised to note the following:

1. Admission to a course in the College may not of itself entitle students to sit for examinations of these bodies. Students are themselves responsible for ensuring that they satisfy all the requirements of the examining body concerned.
2. Students are expected to acquaint themselves with the current regulations for the examinations which they propose to take.
3. Students must make the necessary applications and supply all appropriate documentation that may be required.
4. The College staff will give advice and assistance in the above matters where requested.

## COLLEGE REGULATIONS AND INFORMATION

1. General regulations for the College and classes operating under the Authority of the City of Dublin Vocational Education Committee are displayed in the Entrance Hall. All students are subject to these regulations and also to the regulations of Dublin Institute of Technology which are reproduced later in this prospectus.
2. All college staff are authorised to enforce immediate disciplinary measures in respect of students whom they find violating the regulations of the College or otherwise misconducting themselves. The full co-operation of each student is required in order to maintain the dignity and discipline of the College.
3. In compliance with governmental regulations students are not permitted to smoke in the College except in an area designated for this purpose in the College restaurant.
4. Parking of pedal and motor cycles in the space provided in the College grounds is normally permitted. Students are not permitted to bring cars into the College parking area.
5. Students may use the facilities of the College, including the Gymnasium, on the understanding that they do so at their own risk.
6. Though reasonable care is taken the College does not accept liability for property lost, stolen or damaged on the College premises or grounds. All members of the College community and visitors are advised to exercise great care and vigilance in relation to their property.
7. Locker accommodation is available for a number of students on payment of a fee of £10.00 per session. This includes a deposit of £5.00 returnable only if the locker is vacated within seven days of the expiry of the period for which the locker has been allocated and in any event before the end of the academic session.



## COLLEGE OPENING HOURS & FACILITIES

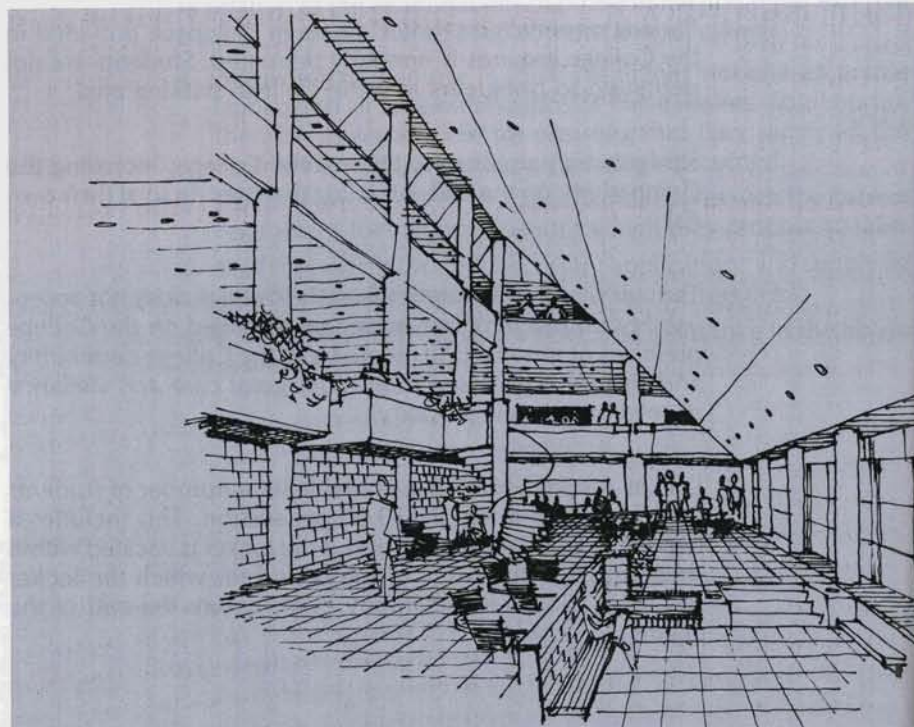
The College is normally open from 8am to 10pm Monday – Thursday, 8am-5.30 pm on Fridays and 8 am-1 pm on Saturdays during the academic session. These hours may be extended during examination or other periods. It is normally closed on Bank holidays and closes at 5.30 pm when classes are not in session.

### Office Open

Hours: 9.00 a.m. to 12.45 p.m. 2.15 p.m. to 5.00 p.m. Monday to Friday, and in the evenings at special periods of the year at times which will be posted on the Notice Board. Except during enrolment periods, members of the academic staff will not be available for interviews or consultations except by prior appointment.

The Accounts and Registrations Offices will deal with enrolments and examination entries at the following times:

9.00 a.m.-12.00 noon  
2.15 p.m.-4.00 p.m.



Central Social Area of the College which is a feature of the extension.

### Class Schedules

Day classes will normally be held during the period 9.00 a.m. to 1.00 p.m. and 2.00 p.m. to 5.00 p.m. each week-day. Evening classes will normally be held from 7.00 p.m. to 10.00 p.m. except where otherwise arranged.

### Formation and Continuance of Classes

The College reserves the right to change any or all of the syllabus, the day and time of meeting of any class and may cancel classes where the enrolment or attendance is considered inadequate. If for some reason a teacher is unable to attend, classes may be cancelled, without notice.

### Restaurant Facilities

The College Restaurant is open throughout the session for lunches and teas as well as morning and afternoon snacks.

### First Aid Service

A First Aid service is provided during the session in co-operation with the Order of Malta.

### Physically Disabled

Physically disabled applicants are welcome to apply to the College and most areas in it should be readily accessible to them. Students who may require special attention or have an unfavourable medical history are asked to provide details in writing to the College Secretary/Registrar in advance of enrolment.

### Banking Facilities

The College has a part-time banking facility on campus in co-operation with Bank of Ireland.

### The College Library

The College Library has seats for more than 400 readers, and is open for about 60 hours per week over six days a week during term time. Most of the collection is on open access to readers. The Library while a single unit, has four main areas viz the lending collection; the reference section; the journals area and the reserve collection. The latter comprises of key texts, reports, theses, examination papers and special materials, all of which are for use on site only. All students of the College may use the Library, and may borrow books once they have become members of it.

Collections of slides, videos and sound tapes are available for use in the Library. Library equipment available includes photocopiers, microfiche readers and information services, a microfiche printer, a microfilm printer, VCRs and monitors, tape slide viewers and a CD-ROM drive. A book security system is also in operation.

The Library book and journal collections support the courses taught in the College and relevant indexes, abstracts and services facilitate study and research in the relevant areas. Close links are maintained with the City of Dublin Public Library System, local Universities and, of course, our sister Colleges in the DIT. Through these links and other co-operative arrangements photocopied



### College Computing Facilities

materials and interlibrary loans may be obtained. Access for staff and senior students to other libraries for the purposes of research can also be arranged through the Librarian. Introductory talks on the use of the Library and its resources will be provided for any interested group by appointment.

#### Hours of Opening

Term Time — Monday-Thursday 9.30 am-9.30 pm

Friday 9.30 am-5.30 pm

Saturday\* 9.30 am-1.00 pm

\*During exam periods open to 5.00 pm on Saturday.

Vacation periods Monday-Friday 9.30 am-5.30 pm.

The Computing facilities of the College involve both centralised and local resources. The centralised facilities are currently based on a VAX cluster of an 8600 and 8350 which are housed in the DIT Computing Centre at 14 Upper Mount Street. These are networked with the facilities of the individual DIT Colleges over leased Bord Telecom lines. The College of Technology in Bolton Street, has a Dec System 5400 multi-user system and extensive microcomputing facilities including North Star, Wang and terminal networks as well as significant numbers of IBM, Compaq, Wyse and Prompt standalone units. The College also has a ten unit Apple Desk Top Publishing system, an Advanced Manufacturing Laboratory and other specialised computer based equipment. It has recently installed ten high powered Work Stations with extensive graphics facilities.

### STUDENTS UNION

The Student' Union is the student's representative body in the College. It promotes the Social and Organisational side of student life and sees after the interest of students in the College. Every student becomes a member of the union on enrolment. The union is democratically based and it is dependent for its effectiveness on student participation. It is affiliated to the Union of Students in Ireland.

It is administered by an executive which is elected annually by the student body and is headed by two sabbatical fulltime officers — a President and a Deputy President who are responsible for the overall co-ordination of union policy in addition to the day to day running of the Union. The Deputy President has specific responsibility for welfare, sports clubs and course related matters. Each class elects its own representative who acts as spokesperson to their Department and Student Union Executive. The ultimate decision making body of the Union is the general meeting which is open to all members of the student body. It holds a number of general meetings during the year.

Full time Officers for 1991/1992 session

President: Jeremy Waring

Deputy President: Douglas Scully

#### Functions of the Students Union

1. To represent and defend the views of its members.

The Union does this at College Level by representing the students on the College Council, Library, Restaurant Committee and other bodies.

It represents its members views at national level through the Union of Students in Ireland.

2. To provide recreational and social facilities for its members. These include lunchtime concerts, parties, dances and talks by guest speakers.

The Union's activities centre around the social area and a common room where students may meet for discussions or just to relax.

Sports clubs and course related societies are administered and financially supported by the Student's Union.

*Central Social Area of the College which is a feature of the major new extension.*





3. The Union provides a number of commercial services including a student shop selling stationery, drawing equipment, sweets and newspapers and it also provides photocopying services. It issues the International Students Identity Card (USIT Card) and provides information on student welfare and travel.

### Student Services Council

DIT student services are co-ordinated by a Students Services Council which is a sub-committee of CDVEC. It is comprised of representatives of the College Principals, Students Unions and other designated or nominated members.

The Students Services Council has two main sub-committees:

- (i) A DIT Sports Council;
- (ii) A DIT Social and Cultural Council.

Each of these sub-committees has Governing Body, College Management and Student Union nominees and have responsibility for the general development and co-ordinates of relevant activities in each College and between Colleges. They are responsible for the disbursement of funds to designate clubs and societies as well as for the preparation of annual budgets and accounts.

The general financial and administrative affairs of the DIT students unions are managed and co-ordinated by a limited company specially established for that purpose and having members of staff who are employees of that company.

The College Auditorium.



## CLUBS AND SOCIETIES

There are some 40 clubs and societies in the College and all are anxious to recruit new members. Most of them are very active and cater for a wide range of interests.

### Clubs

Badminton, Basketball, Canoeing, GAA, Cycling, Equestrian, Golf, Mixed Hockey, Karate, Mountaineering, Orienteering, Rugby, Sailing, Soccer, Squash, Ski, Swimming/Polo, Table Tennis, Walking, Weights and Wind Surfing.

### Societies

Architectural Students Association, Auctioneers and Valuers, Business, Cáirdeas, Construction Technician, Christian, Engineering Technician, Film, Geo Surveying, Green Society, Motor Industry Management, Photographic, Printing, Property Economics, Quantity Surveyors, Students Against Destruction of Dublin (SADD), Student Engineers (SSE), Engineering Technicians (SETS), Third World, St. Vincent de Paul and Romanian Response.



Participating in a DIT Colleges Competition.



## EXPANDING THE COLLEGE'S RESEARCH AND CONSULTANCY ACTIVITIES AND ITS LINKS WITH INDUSTRY

The College has a total enrolment of over 7,500 students including more than 2,150 fulltime students, 2,000 part-time students and 3,300 craft apprentices who attend through either a day release or block release arrangement. At least 5,000 of these students are already in employment and this helps to maintain close links between industries which sponsor or employ them and the College.

The work of the College is focused in three main disciplines relating to the Construction, Engineering and Printing sectors and almost all of it is technologically based.

The College has developed a number of specialised units or activities in response to identified needs. These include:

- (a) Advanced Manufacturing Technology (AMT) Centre which was partially funded by the office of the Minister for Science and Technology and Eolas to provide specialised training and consultancy services for industry with a particular emphasis on Flexible Manufacturing Systems (FMS). Further information is available from Mr. Oliver McNulty, Director of the Centre.
- (b) The College offers a number of "Training for Trainers" courses under the EC Eurotecnet programme in areas such as Advanced Manufacturing, Computer Aided Design (CAD) and Quality Control. Further information is available from Mr. Michael Murphy, (Vice Principal).
- (c) With the aid of the EC STAR programme the College has developed a Building Information Centre to provide better information services on appropriate products and services to the Irish Construction Industry and its associated professions. This has a computerised database and is accessed by enquirers using the telephone network and Minitel. It helps to establish and maintain closer links between the College and the Construction Industry. The Manager of the Centre is Mr Eamon Buckley and he may be contacted in Room 133 in the College.
- (d) The College in association with the other DIT Colleges operates a Product/Project Development Centre which supports young graduates while they are developing their project work towards commercial exploitation. Where considered appropriate they may use College facilities and draw on the expertise of its staff. They are provided with formal instruction on relevant aspects of entrepreneurship including the preparation of business plans, patent law, marketing and other relevant topics. Enquiries should be directed to Mr. Rea O'Neill, DIT Industrial Liaison Officer, 14 Upper Mount Street, Dublin 2.
- (e) The College has been working closely with the Irish Timber Council in promoting the greater use of Irish timber. This involved conducting a number of surveys amongst potential users with a view to identifying the main issues that have to be addressed. The next phase of this work is to undertake R & D into some of the key aspects and to develop a series of special training

programmes for staff employed in the industry. To facilitate this a Timber Technology Centre has recently been established in the College under the Direction of Mr. Martin Carragher. The Centre is located in the School of Trades, Linen Hall and enquiries should be directed to Mr. Carragher.

## APPLIED RESEARCH AND CONSULTANCY ACTIVITIES

Through its many industry linked and professionally based programmes the College has a long tradition of interaction with Irish Industry and Commerce. The importance of such interaction has been recognised in a recent initiative of the Minister for Science and Technology whereby funding has been provided to support a full-time industrial liaison and research management function in the College. Impending legislation will give a statutory basis for future collaborative ventures between the College and Irish companies. Such industrial and commercial links take a number of forms:—

- \* Collaborative R&D supported under National/or E.C. funding programmes.
- \* Short Training Programmes for personnel in Industry and Commerce.
- \* Consultancy Projects.
- \* Exchange of personnel including staff, graduate and student placement.

These activities can be pursued using the wide range of technological and business expertise in the College's Construction, Engineering and Printing Sectors.



At the Irish Launch of EUROFORTECH, a COMETT funded joint Irish-Swedish University-Enterprise Training Partnership, in the College in March 1991 (left to right) Mr. Martin Carragher — Manager EUROFORTECH in Bolton St., Dr Jos Evertsen — Vice-Chairman, EUROFORTECH, and Forest Products Dept. EOLAS, Her Excellency Margareta Hegardt — Swedish Ambassador to Ireland, Mr. Michael Smith TD — Minister for Science and Technology and Dr. Pat McCormack, College Industrial Liaison Officer.



Areas of specialist expertise include:

- \* Architecture, Design and Technology
- \* Construction
- \* Timber Technology
- \* Mechanical, Production, Civil, Structural and Building Services Engineering
- \* Transport Engineering including Aeronautics
- \* Advanced Manufacturing Technology
- \* Computer Aided Design (CAD)
- \* Engineering and Buildings Maintenance
- \* Energy Technology
- \* Property and Land Use Economics
- \* The Built Environment
- \* Surveying including Geo-Surveying
- \* Printing and Graphic Communications

The College has established a number of links with other European countries through its participation in EC funded programmes. These links are mainly with EC institutions of higher education but they may also involve European industry and commerce. An example of the latter is the College's participation in an EC COMETT funded programme involving a partnership between colleges and the Forest sector industries and professions across Europe.

Further information on the College's Industrial, Research and European activities can be obtained from:

Dr. Pat McCormack  
Industrial Liaison Office  
College of Technology  
Bolton Street  
Dublin 1.  
Telephone: +353 1 727177  
Telefax: + 353 1 727879

## GENERAL REGULATIONS OF THE DUBLIN INSTITUTE OF TECHNOLOGY

*Students are admitted subject to the regulations of the Institute and its Colleges as amended from time to time.*

### REGISTRATION

1. The applications and enrolment dates for courses offered in the Institute shall be as published annually by the Institute.
2. Fees must be paid in full on enrolment and before admission to class by bank giro, cash, bankers draft, money order or guarantee from a granting body.
3. Intending students should note the Entry Requirements for admission to the various courses before making an application for admission to classes or courses. The applicant may be required to attend for interview and the College must be satisfied as to his/her ability to benefit from the proposed classes or course. Approval in this respect must be endorsed on the enrolment form by the designated College authority. A College may require an applicant to pass an entrance test and/or a suitability test before admitting him/her to any class or course.
4. Only in exceptional circumstances and subject to the additional payment of a late fee of £35 will applicants be admitted after the enrolment date as referred to in 1.
5. The sole proof of enrolment in any class or course in the College is the Official Receipt for the class or course fees paid. The Official Receipt must be shown to the Lecturer on first attendance at each class of the course. Lecturers are authorised to refuse admission to classes of students who do not show their Official Receipts.
6. Fees are not refundable except where a class or course does not form.
7. New students will be issued with an Identity Card. For this purpose and for the College records students must provide, at their own expense, three copies of a recent photograph (not returnable) of passport type and size. The Identity Card is the Property of the College and may be demanded by the College or its officers or agents at any time. Where Identity Cards have been lost or are no longer usable the College should be informed as soon as possible and three copies of a recent photograph must again be provided as in the case of first enrolment. Students should note that an appropriate charge will be made for replacement of Identity Cards.
8. The onus is on the student to notify change of address or place of employment to the Secretary/Registrar immediately.
9. The College Principal, subject to the approval of the Vocational Educational Committee and the Academic Council, may change any course and any or all of the examination regulations. The relevant students shall be given due notice of any such change.



10. The College Principal may change the day and time of any class and may cancel classes where the enrolment or attendance is considered inadequate. If for some reason a lecturer cannot attend, classes may be cancelled without notice.

11. No exchange of classes may be made after enrolment without the written consent of the Principal.

12. **Overseas Students**

Overseas students are required to hold the Leaving Certificate of the Department of Education or the General Certificate of Education Ordinary Level in six subjects including English and Mathematics or equivalent qualification. Applicants for professional or degree level courses are also required to have a minimum of two GCE Advanced Level Subjects or equivalent.

Where requested applications must be accompanied by a letter of recommendation from the Diplomatic Representative of the Country of origin in Ireland, or, where there is no such representative, from the Ministry of Education in the country of origin. No applications will be accepted from overseas applicants for admission to part-time day or evening courses unless they are already resident in the country.

## STUDENT DISCIPLINE

1. Students are expected to participate in College activities in the manner conducive to establishing a sound educational atmosphere.

2. All students are required to observe the published regulations laid down by the College.

3. Any student disrupting or causing disruption of any College activity may be suspended from College.

4. Students must at all times obey the lawful instruction of lecturers and other members of the college staff who are responsible for the maintenance of good order.

5. Misconduct in any of the Colleges comprising the Institute may lead to suspension by the College Principal of the student or students concerned.

6. Students are liable for the cost of repair or replacement of Institute or College property maliciously or negligently damaged by them.

7. Students are not allowed to smoke in the College except in areas designated for smoking.

8. Students are required to carry their Identity Card with them while in College or wherever they may be required to identify themselves as students of the College.

9. The Vocational Educational Committee reserves the right to expel from the College at any time any student whose conduct is in serious breach of the regulations.

10. Only College or Institute societies and clubs may advertise in the College. Students may only display posters and notices on the designated notice boards with the permission of the College Secretary/Registrar in the College concerned.

11. Student groups wishing to hold meetings in the College should make application in advance and receive the permission of the Secretary/Registrar before such meetings take place.

12. Alcoholic drink may not be brought into the building or grounds of the College without the prior permission of the College Principal.

13. Students are forbidden to park cars/bicycles/motor cycles except in such places as they are authorised to do so from time to time.

14. The College Secretary/Registrar must be consulted in advance if College organisations or Students Unions propose to arrange parades, collections, demonstrations or any other activities of this kind, using the name of the Dublin Institute of Technology, or the name of any of the Colleges comprising the Institute. Approval is given on the understanding that relevant bye-laws and such conditions as are set down by the College will be observed. Notice to the appropriate public authorities where required, should be arranged well in advance. Individual students participating in the name of the College in any activity outside College remain subject to the general regulation that students' conduct shall not bring the College into disrepute.

15. An appeal by a student against a decision on disciplinary matters may be made by the student through the College concerned to the Disciplinary Appeals Board of the Institute. The Board shall comprise a membership as follows:

(i) Chairman of the Institute or a member of the Committee acting on the Governing Body and nominated by the Chairman;

(ii) The Chief Executive Officer;

(iii) A College Principal of another DIT College;

(iv) A Student Representative.

No member of a disciplinary committee may be a member of the Appeals board.



## ATTENDANCE

1. A Student is expected to attend all subjects classes in all unless specifically exempted from doing so and a minimum attendance of 75% in all subjects of the course is required.
2. Students who fail to comply with this requirement without satisfactory explanation to the College Secretary/Registrar may be refused permission to sit college examinations, and endorsement of their entries for external examination may similarly be refused.
3. The Vocational Education Committee may expel any student without refund of fees, for irregular or unpunctual attendance. Three successive absences or unsatisfactory attendance from any class may lead to suspension from the entire course, unless a satisfactory written explanation is submitted to the Principal.
4. Students must provide themselves with such books, instruments and equipment (including special clothing) as their classes may, in the opinion of the College, require. Safety precautions, and such other regulations as the work of the College may require, must be observed as prescribed.
5. Students are required to keep such notebooks and record books, and to undertake and submit by the dates specified such course work and assignments as specified by members of the teaching staff. Failure in this respect may lead to suspension or expulsion.
6. Apprentices should note that details of employment and the attendance of all apprentices enrolled in release courses are made available to the relevant authority and employer.



The College Restaurant

## EXAMINING BODIES

### External Examinations:

The College offers courses relating to the Examinations of the following bodies:—

#### 1. Department of Education

##### (a) Technological Certificate Examination in:

- (i) Building
- (ii) Mechanical Engineering
- (iii) Motor Car Engineering
- (iv) Mathematics

##### (b) Trade Certificate Examination in:

- (i) Bricklaying and Masonry
- (ii) Cabinetmaking
- (iii) Carpentry and Joinery
- (iv) Compositors' Work
- (v) Lithography
- (vi) Bookbinding
- (vii) Motor Car Engineering
- (ix) Plasterers' Work
- (x) Plumbing
- (xi) Fitters' & Turners Work
- (xii) Toolmaking
- (xiv) Metal Fabrication
- (xiv) Sheet Metalwork
- (xv) Welding.

#### 2. Professional Institutions

- (i) Construction Surveyors' Institute
- (ii) The Engineering Council
- (iii) Institution of Engineers of Ireland
- (iv) Institution of Mechanical Engineers
- (v) Institution of Production Engineers
- (vi) Institution of Structural Engineers
- (vii) Chartered Institute of Building Services
- (viii) Institution of Industrial Managers
- (ix) Chartered Institute of Building
- (x) Royal Institution of Chartered Surveyors
- (xi) Royal Institute of the Architects of Ireland
- (xii) Institution of Road Transport Engineers

#### 3. Other Bodies

- (i) British Federation of Master Printers
- (ii) City & Guilds of London Institute
- (iii) Department of Tourism & Transport (Licences in Aeronautical Engineering)
- (iv) Institute of Motor Industry
- (v) National Association of Paper Merchants



## CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE

The College operates under the City of Dublin Vocational Educational Committee. The CDVEC is assisted by a number of committees, including a Governing Body of the Dublin Institute of Technology, College Councils for each of its six colleges a joint Academic Council and an Apprentice Education Board.

### MEMBERS OF CDVEC FROM JULY 1991

Mr. James Wrynn (Chairman)  
Mr. Charles McManus (Vice-Chairman)  
Mr. Peter Burke  
Ald. Patrick Carey  
Ald. Michael Conaghan  
Cllr. Joe Costello  
Ald. Michael Donnelly  
Mr. Billy Fitzpatrick  
Mr. Gerry Higgins  
Cllr. Vincent Jackson  
Cllr. Tomas MacGiolla  
Mr. Michael O'Halloran  
Mr. Thomas Simpson  
Vacant (Parent Representative)

### MEMBERS OF DIT GOVERNING BODY

Not available at time of going to Press.

### MEMBERS OF COLLEGE COUNCIL

Not available at time of going to Press.

### MEMBERS OF ACADEMIC COUNCIL

Mr. K. Sullivan DipEng MSc MIEI (Chairman)  
Dr. B. Goldsmith BSc MSc DPhil (Deputy Chairman)  
Ms. V. Abbott MA HDipEd MIL  
Dr. I. Beausang BMus MA PhD LRAM DipCSM (Deputising for Ms. E. Farrell)  
Mr. F. M. Brennan DipEE CEng FIEI FIERE  
Ms. A. Bruton BArch MRIRI RIBA MSDI ACIAHO  
Mr. R. Burns BSc MSc  
Mr. J.T. Byrne BComm MEconSc  
Mr. J.T. Cotter BSc MSc  
Mr. J. Creagh MA ANCA ATC MSDI  
Mr. E. DeBurca FRICS  
Dr. T. Dalgic BA MBA PhD  
Mr. J.J. Doherty BA  
Ms. E. Farrell BMus MMus  
Dr. J.C. Fisher BA BAI HDipEd PhD CEng MIEI  
Mr. G. Fitzpatrick BA BComm FCA  
Mr. P.R. Flood BComm MPA FMII MIITM  
Dr. M. Hearn MEd BSocSc DipDomSc HDipEd PhD  
Mr. J. A. Hegarty MEd DipHtMgt MIHCI  
Mr. F. Heneghan BE BMus CEng MIMechE FTCL LRIAM  
Mr. P.J. Henry BComm MBA  
Mr. J.S. Hickey MSc BA  
Mr. R.T. Holmes MMus BMus ACRM  
Dr. M. Hussey BE MSc PhD CPhys FInstp CEng MIEE  
Mr. E. Kelly BA (MOD) MSc Mangt Sc

Mr. F. Lane BA DipAppPsych  
Mr. R. J. Lawlor BA MBA MIHCI  
Dr. D. McGuinne BFA MSDI  
Mr. F. McMahon BComm MBA MIHCI  
Mr. O. McNulty CEng FIEI ARTCS MistrucE  
Mr. T.P. Madden BComm FIMA FIIF MIPM MIITM  
Mr. M. Murphy DipEng MSc CEng MIMechE  
Mr. C.J. Nutty BA MPA FMS  
Mr. A.P. O'Connor BComm DPA MIPM MIITD  
Mr. M.O'Donnell MEconSc BE BComm CEng FIEI  
Mr. J.J. O'Keeffe BArch FRIAI  
Mr. P.J. O'Neill BComm  
Dr. M. Proctor MSc PhD MIFSTI MIHCI  
Mr. E.J. Rothery BSc CChem FRIC FICI MIBiol  
Ms. B.A. Ryan BSc MSc CBiol DipIndMicrob  
Mr. J.F. Ryan MA BComm DPA  
Mr. J.K. Taaffe BSc MSc Cphys MInstP MBA HDipEd DipProd Barrister-at-Law  
Ms. K.M. Tierney MA  
Mr. G. Walker BA HDipEd MRP MIPI  
Mr. J. Bernie TEng (CEI) MInstG TechE (Apprentice Education Board Observer)  
Mr. J. Morrissey BA HDipEd (Board of Studies Observer)  
Mr. T. Duff (Academic Registrar) BSc CEng MIProDE  
Mr. E.P. Tuffy (Education Officer) BSc MEd CGL (FETC)

### MEMBERS OF APPRENTICE EDUCATION BOARD

Mr. M.P. Farrell CEng MIEE MIEI (Chairman)  
Mr. J. Bernie IEng MIMechIE  
Mr. J. Erraught MCFA LCG MIHCI  
Mr. R. Eustace BSc (MechE)  
Mr. P. Kelly FTC HTC  
Mr. B. Kennedy BA FTC (C&G) MIOP LCG  
Mr. D. O'Brien NB Dip FTC (CGLI)  
Mr. T. O'Connor BA  
Mr. J. O'Donnell BAHdipEdIEng(EC) MIESECIE  
Mr. P. O'Neill  
Mr. D. Tuite IEng MIMI MIRTE SIMI  
Mr. A. Whelan



## ACADEMIC STAFF

### SCHOOL OF ARCHITECTURE SURVEYING AND BUILDING

**Vice Principal and Head of School:**  
Gerald Walker BA HDipEd MRP MIPi

#### Department of Architecture and Town Planning

**Head of Department:** John O'Keeffe BArch FRIAI  
**Assistant Heads:** Sean Gaynor DipArch MRIA  
Sean Rothery BArch PhD FRIAI  
ARIBA

#### Staff Lecturers

Niall Brennan Dip Arch MRIA  
Niall Downes BArch MRIA  
Michael Fewer DipArch MRIA  
Francis Ford MArch and UD DipArch MRIA  
Robert Fowler DipArch MRIA  
William Gilligan BArch FRIAI  
Dermot Healy DipArch MRIA  
Fergus A Hogan DipArch MRIA  
James Horan DipArch MRIA  
John Lauder BE DipEng (MGT) Dip EngComp  
Peter S Manning BArch MRIA  
Gerard Mitchell BArch MLA ARIBA  
Eamonn O'Doherty BArch MRIA  
Desmond G O'Dwyer DipArch  
Martin Ridge DipArch MRIA  
Duncan Stewart BArch MRIA

#### Part-time Staff

Denis Bannister DipArch  
Gerard F Cantan DipArch MRIA  
Liam Carlin MRIA ARIBA  
E Conroy DipArch MRIA  
Anthony Cosgrave TechEng DipA&F ACIBSE  
Patrick Doris MIATT  
Brendan Grimes BA KipArch MRIA  
Hugh Desmond DipArch MRIA  
Orna Hanly DipArch MRIA  
David Harris BArch  
Michael Jordan BE  
David Kelly DipArch MRIA  
Thomas Kirk BArch MRIA  
Ditty Kummer DipGraphics  
David Laverty  
Niall McCullough BArch MRIA  
Raymond MacDonnell BArch MRIA  
Michael McGarry BArch MRIA  
Sean McGovern BArch MRIA  
Valerie Mulvin BArch MRIA  
Eamon Murphy MRIA ARIBA  
Thomas O'Beirne BArch MRIA  
Siobhan O'Dea DipArch BScArch  
Barbara O'Doherty  
Hugh O'Neill BA  
Edmund O'Shea DipArch MRIA  
Michael O'Sullivan DipArch MRIA  
Michael Phillips BArch MRIA

John Scuffins MIAAT  
Neil Sholdice DipArch MRIA  
Bernadette Solan DipArch MRIA  
Noel Somerville DipArch MRIA  
D L Swan MA  
Ethna Walls DipArch BArch SC MRIA

#### External Examiners

Colman O'Donoghue DipArch MRIA  
Ciaran O'Connor DipArch MRIA  
Brian McNamara DipArch MRIA  
David Bigelman Architecte DPLG  
Anthony Horan BA FRIAI MSDI (Ireland)  
Luigi Moretti Prof. Roma. (Italy)

#### Department of Surveying & Building Technology

**Head of Department:** Eanna De Burca FRICS  
**Assistant Heads:** Joseph P. Davis BComm MSc  
(Econ) CertEdDipStats ARICS  
John Dixon BSc FInstCES  
Thomas A Dunne FRICS MIAVI CDipAF  
Bernard Skelton ARICA

#### Staff Lecturers

Ursula Barry BA  
Thomas Byrne FTC (C&G)  
Donal Cooper MCIQB  
Eamonn Donnelly DipGeo-Surv MInst CES  
Brendan Dunne MCIQB FIAS  
Timothy Enright ARICS  
Sara Gerrard BSc PhD  
Martin Hanratty DipCon Econ ARICS  
Frank W. Harte DipArch MRIA  
Robert Jennings MA(Econ) DPA  
John McCarthy BArch  
Sean McCarthy BE  
Eugene McGovern DipGeo-Surv MInst CES  
Declan McKeown DipEnvEcon MSc ARICS, AIArb  
MIAVI  
John Molloy ARICS Dip EEcon  
Kevin Mooney MSc DipGeo-Surv Inst CES  
Roderick Murphy PhD BL  
John A O'Donohoe FCA ATII  
Cornelius O'Shea BSc DipArch BArch Sc MRIA  
William D O'Sullivan ARICS MSc  
Francis Prendergast MSc DipGeo-Surv MInst CES  
Terri Prendergast BSc(Surv) MPhil  
Paul Quinn ARICS DipConEcon  
Anne Russell BComm, DPA ACA AITI  
Desmond Stark Barrister-at-Law  
Damien C. Turley BE MSc P Eng (Can) MIEI  
Rory Walsh ARICS  
Stephen Walsh BA (Mod) MA  
Tadhg Walshe BE MIE CEng MIEI

#### Part-time Staff

Bernard Le Cesne Byrne BE AMICE AMIstrutE  
John Kearney MRIA  
Yvonne McGlynn Dip Geo-Surv  
Malcolm Mitchell  
Joe O'Byrne FCIQB

Timothy O'Halloran FRICS  
Hugh O'Neill  
Niamh O'Reilly DipGeo-Surv

#### External Examiners

Max Abrahamson LLB Solicitor  
Alistair Adair BA Cert ED. ARIES  
Kevin Callan FRICS, FCIQB, ACIArb  
John Greer BA MA MRTPI  
Prof. Peter Hibberd MSc, FRICS, ACIArb  
Michael Keogh BAg Sc., ARICS, MIAVI  
Richard Kirwan BE., MIEI  
Michael Patchett MCIQB

### SCHOOL OF ENGINEERING

**Vice Principal and Head of School**  
Michael Murphy DipEng MSc CEng MIMechE

#### Department of Engineering Technology

**Head of Department:** Oliver McNulty Eur Ing CEng  
FIEI ARTCS FIIM

#### Assistant Heads:

Daniel Byrne CEng AMInstF MCIBS MIEI  
Neil Gillespie CEng MIMechE  
Matthew Russell MSc CEng FIEI MIProdE CertEd U of  
London

#### Staff Lectures

Liam Archer CEng MIMechE  
Kenneth Beattie BSc MIMechE MCIBSE  
John A. Butler DipEng AMInstF CEng MIMechE  
MIFirE  
Albert Byrne MIPHE  
Michael Crowley BSc HDipEd MCIBSE  
John Cash BE MS CEng MI MechE  
James Conlon CEng MIEE  
Gabriel Corcoran BA BAI MEng SC MIEI  
Ben Costello BA CEng MCIBSE MInst  
William Dalton CEng MIEI  
Louis Demetrious MCIBSE MInstE  
Patrick Doyle CEng MIEE MIE  
Edward Fallon BE CEng MISTructE  
Patrick Fortune MCIBS  
Ross Galbraith DipEng BSc CEng MIEI  
Matthew Harton DipEng MSc  
Liam Henry CEng MIEI GIREE  
John Henchion BE  
Stewart Irving CEng MRAES FIMC  
John Kelleher BE  
Joseph Kindregan BE CEng MISTructE MIEI  
Martin Lohan BA BAI CEng MISTructE MIEI  
Patrick McLaughlin BSc MSc  
John McQuillan CEng MIMechE MIEI  
Robert Mahony BE MEng MISTructE MIEI  
Donal Murphy MIED  
John Peel BE CEng MIEI MIMechE  
William Reddington BE MEngSc MIEI  
John Vickery DipEng CEng MIEI  
John R. Wormald CEng MIMechE C Dip A F  
Gerard Woods MIEI PhD

#### Part-time Staff

Frank Bodkin  
Michael Carew CEng MISTructE MIEI  
Noel Carroll  
T.W. Churcher TEng (CEI) MIQA  
Ciaran Coleman  
Malachy Coleman  
James Coll BE  
Terence Cooke  
Sean Costello  
William J. Costello DipEng CEng MIMech EMSc  
AMBIM  
James Daly BE CEng MIEI  
Sean Davitt BE CEng MIEI  
Thomas Dinnigan C&G  
Ken Duggan  
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Michael Kelly  
Stephen Lawless DipEng BSc  
Raymond Loughran  
Barry McGinnell DipEng BSc  
Frank McKeon  
Edward Mullarkey BE  
Thaddeus Murray  
Paul O'Brien  
Desmond P. O'Loughlin  
Michael O'Reilly BA BAI  
Thomas Power  
S.C. Rossiter  
Anthony Sayers  
Alan Sullivan  
Stephen Tiernan DipEng BSc  
Margaret Whelan DipEngBSc  
Francis White

#### External Examiners

Michael Buckley BE CEng MCIBSE MASHRAE  
Joseph Cox BE CEng MIEI  
Prof. T.R. Crossley BSc (Eng) PhD CEng FIA  
Stephen Hodgson BSc CEng MCIBSE  
Prof G Hitchings MSc PhD CEng MIMechE MIEI  
Christian Lund BE MIE  
Eamon O'Brien FICIBSE MASHRAE M.ConstE  
Dr. Michael Pierce MAI PhD  
Morgan Sheehy BE CEng FIEI FISTructE  
Dr. Conrad Smith MSc PhD CEng MCIBSE  
Pierce Sutton BSc(Eng) DipEng MIEI MISTructE  
Dr. David Timony BE PhD MIEI  
John Towers BE CEng MIEI MRAES  
Prof. K.S. Virdi, BSc BTech ME PhD DIC CEng FICE  
FISTructE

#### Department of Science, Mathematics & General Studies

**Head of Department:** Jeremiah Cotter MSc  
**Assistant Heads:**  
Gerard Lawlor MSc  
Patrick J. McCormack PhD MInstP  
Apprenticeship Area: Philip Murray BE MAI MPA  
MIEI  
Head of Computing: John Turner BE MEngSc



### Whole-time Staff

John Boland BScHDipEd  
Patrick Carroll MSc  
Elizabeth T. Clancy BSc  
John J. Doherty BA  
John T. Downes CEng MIEI AMIEE  
Brendan Duff BSc  
Margaret Duignan BSc HDip Ed  
Thomas Dunphy BE MEng Sc  
Clive Garland BBS Dip SocSc DipAppSocSc CQSW  
FETC  
Martin Hanrahan BA HDipEd  
Patrick Henry MA CISA  
Padraic Houston BSc MSc PhD  
Brian F. Hurley MSc  
James Kelly BA (Mod)  
Patrick F. McCann BSc HDipEd  
Donal McCarthy CEng MIEI  
William McCarthy CEng MIEI  
Arthur McCrory MSc  
Lorcan McDermott BA MLitt  
Eugene McGoldrick BE MEngSc PhD  
David Meehan BSc MSc CPhys CEng MIEE HDipEd  
Sean Mulligan BA MSc  
Anthony O'Boyle BE HDipEd  
Gerard O'Brien BE  
Thomas O'Connor BA  
Sean O hOgain MSc HDipEd  
Susan O'Shaughnessy MA H DipEd  
Con O Suilleabhain MSc PhD DipChemE  
Eamonn O'Sullivan DipEd BE  
Alice Prendergast BComm HDipEd  
Louis R. Purton BSc HDipEd  
John Quinn MTC MIMI  
James Quinn MSC MIndEng  
Brenda Ryan BSc  
Evelyn Thornhill-Cawley BSocSc  
Michael Whelan AArts BSc MSc

### Part-time Staff

Anna Breslin-Kelly BA MA  
Adrian Buckley BE  
Maurice Coakley BA  
Edward Conlon BSocSc  
Christa Droth-Wagner  
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Patricia Keegan BSc PhD  
Richard Lawlor MSc  
Maeve O'Connor BSc (App Science)  
Peter O'Halloran BA  
Patrick J. O'Reilly  
Thomas Power BA MBS  
Domhnall Sheridan BSc  
Derek Shiel MSc

## SCHOOL OF TRADES

**Vice Principal and Head of School**  
Matthew P. Farrell CEng MIEE MIEI

### Department of Transport Engineering

**Head of Department:** Dominick Tuite IEng MIMI  
MIRTE SIMI TechDip  
**Assistant Heads:**  
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### Whole-time Staff

Sean Brennan SIMI TechDip AMIMI AIRTE  
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Paul Wearan SIMI TechDip FTC (C&G)  
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Denis Barry LME  
James Bassett SIMI TechDip  
Gerry Bracken BSc  
John Byron  
Hugh Cafferky BI  
William Carroll BComm LDip  
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Gerald Clifford FAA FDL Adv. Instructor Rating  
Patrick Coffey ATC LIC  
Derek Colley  
Jarleth Conerney LME, FBIS  
P. Cooke  
William Crowley AME  
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Damien Donlon  
John Dooley  
Brendan Downey LME  
Thomas Dunphy  
Charles Duggan MIMI  
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Thomas Farrell SIMI TechDip  
D. Fitzsimons  
M. Forde AMEMSLAT  
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Peter Mulcahy  
Michael Mulcahy  
David Murray ROL  
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J.B. Thompson C.P.L.  
Desmond Walsh LEM

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Jonathan Parkins BEd(Hons) IEng LAE FIMI AIRTE

### Department of Engineering Trades

**Head of Department:** Robert L Eustace BSc Mech E  
**Assistant Head:** Joseph Sheils

### Whole-time Staff

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David Cox  
Martin Dunne FTC (C&G)  
Peter Flood  
Bernard Kelly  
William Kelly  
John Lawlor  
Denis McGrath LCG TEng (CEI) AMIProde  
James McKenna TEng (CEI) AMIProde  
William Mowlds  
Charles B O'Brien IEng MIProde  
Michael Ring C&G Tech  
Ciaran Smith  
James Vahey MTD

### Part-time Staff

John Adams  
Wm. Bergin  
Peter Deane  
John Fenlon  
John F. Fitzgerald  
Denis Mahoney  
Michael O'Hehir  
Graham Robinson  
Leslie Smith  
Alan Stewart

## SCHOOL OF CONSTRUCTION TRADES

**Head of School:** Joseph Bernie IEng MIMechIE

### Department of Building Trades 'A'

**Head of Department:** Vacant

**Assistant Heads:**

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Frederick Hosford Final C&G AdvCert

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Patrick Cullen C&G AdvCert  
James P. Doyle C&G FTC LCG  
John Kane FTC C&G FETC  
William Lacey C&G FTC LCG  
Gerard McGrath C&G AdvCert  
Peter McMullen C&G AdvCert  
Patrick McNally C&G FTC  
Martin Sneyd FTC C&G FETC LCG DiplntDes

### Part-time Staff

John Davis C&G FTC  
John Duffy C&G FTC  
George Monks C&G FTC FETC  
Andrew O'Kelly BSc ARICS  
Thomas O'Reilly

### External Examiners

Owen Lewis BArch MSc FRIAI  
Leslie Wilder FCIIOB

### Department of Building Trades 'B'

**Head of Department:** Patrick Kelly FTC HTC  
**Assistant Head:** James Kelly FTC HTC AMCSI

### Whole-time Staff

Martin Carragher MinstCert  
Andrew Dunne FTC (C&G)  
William Edwards C&G  
Aidan Halpin ABICC Final (C&G) HTC  
Christopher P. Kelly LIDB FTC (C&G)  
Patrick Kelly Minst Cert  
Michael McDonnell (C&G)  
John McGuirk ABICC FTC (C&G)  
Robert McShane FTC (C&G) HTC  
Peter Murphy FTC (C&G)  
Dermot Russell FTC (C&G) MCIIOB  
James S. Stewart FTC (C&G)  
Thomas Tutty (C&G)



**Part-time Staff**

P.J. Byrne  
Philip Cully  
John Fitzgerald  
Andrew O'Kelly

**External Examiners**

John Gillian  
Patrick Walsh MCIOB Barrister-at-Law

**Department of Metal Fabrication and Plumbing**

**Head of Department:** Vacant

**Assistant Heads:**

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Seamus Murran IEng FIOF MIWEM Sen A Weld

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Patrick Carpenter FTC (C&G)  
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Derek Cummins C&G Tech  
Edward Donoghue Final C&G IEng MIET  
Daniel Gahan Final C&G  
Brian Gilbert Final C&G  
William Jackson Final C&G Tech  
Denis Lynch Adv C&G MIBF EngTech  
Gabriel McGreer Final C&G  
Michael McKeogh Final C&G Tech MIP  
Paul McMullen Final C&G  
James McSweeney Final C&G IEng  
Nicholas Murray Final C&G  
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Seamus O'Connell Final C&G  
Paul Sherlock Final C&G Tech  
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**Part-time Staff**

Seamus Dowling  
Michael Gleeson  
Peter Grainger  
Michael Kinsella  
Joseph Martin  
John Nolan  
Noel Power

**External Examiners**

Raymond Clinton MCIBSE  
Patrick Sheridan BE CEng MIEI

**SCHOOL OF PRINTING AND GRAPHIC COMMUNICATIONS**

**Head:** J P Brian Kennedy BA FTC (C&G) MIOP LCG

**Assistant Head:**

John M. Foley BA (Econ) MIOP FTC (C&G) LCG

**Whole-time Staff**

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Noel Bright ACC (C&G)  
Kenneth Devitt ACC (C&G) APgEd Cptg Tech  
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Terrance Farrelly-Smith (Temp Post)  
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Kenneth Richards Final C&G

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Donal Casey  
Patrick Dolan  
Liam Donnelly  
Diarmuid Doorly BL  
Joseph Fagan CC (C&G)  
Eileen Farmer TDip  
Philip Howlin ACA  
Joseph Lynch  
Terence McCormac  
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Stanley McDonald FTC (C&G)  
Roger McGuinness  
Anton Mazer MSDI  
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Joseph Reddin FTC (C&G) LCG  
Paul Rowe Cert PrintTech  
Frederick Snowe ACC (C&G)  
Brendan Somers  
Anthony Thursby ACC (C&G)

**External Examiners**

Raymond Bannon MA GradIOP CertEd HND  
Walter Bunadini MCSD MSDI  
Lesley Heath BEd (Hons)  
James Kirwan

**COLLEGE ADMINISTRATION****Secretary/Registrar**

Michael J. Marnane BComm DPA MACRA

**Accounts Office**

Philomena Kenna

**Examinations Office**

Deirdre Corcoran

**Registrations/Admissions Office**

Liam Cooke ACISDBS MACRA

**Building Maintenance Supervisor**

Vacant

**INDUSTRIAL LIAISON****Head of ILO Office**

Dr. Patk. McCormack

**Head of Timber Technology Centre**

Martin Carragher

**Head of Building Information Centre**

Eamon Buckley

**CHAPLAINS****Catholic:**

Rev. Brendan Kearney SJ  
Rev. Michael Martin OFM  
Rev. Michael Foley SS CC

**Church of Ireland** — Rev. Nigel Dunne

**Methodist** — Rev. Kenneth Lindsey

**Presbyterian** — Rev. A.V. Martin

**PHYSICAL EDUCATION**

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**LIBRARIAN**

Peter Cahalane BA DiplLibStud

**SENIOR COLLEGE STAFF**

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Principal of the College



**Mr. Michael Murphy**  
Vice-Principal Engineering/  
Technology



**Mr. Joe Bernie**  
Head of School  
Construction Trades



**Mr. Matt Farrell**  
Vice Principal  
(Craft & Trades)



**Mr. Gerard Walker**  
Architecture, Surveying  
& Building



## HEADS OF DEPARTMENTS



**Mr. Jack O'Keefe**  
Architecture & Town  
Planning Department



**Mr. Eanna de Burca**  
Surveying & Building  
Department



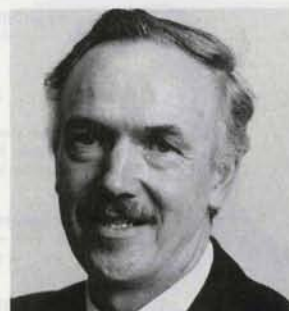
**Mr. Oliver McNulty**  
Engineering Technology  
Department



**Mr. Brian Kennedy**  
Printing & Graphic  
Communications Dept.



**Mr. Derry Cotter**  
Maths, Science & General  
Studies Department



**Mr. Robert Eustace**  
Engineering Trades  
Department



**Mr. Dominick Tuite**  
Transport Engineering  
Department



**Mr. Patrick Kelly**  
Construction Trades  
Department



**Mr. Michael Murnane**  
College Secretary/Registrar

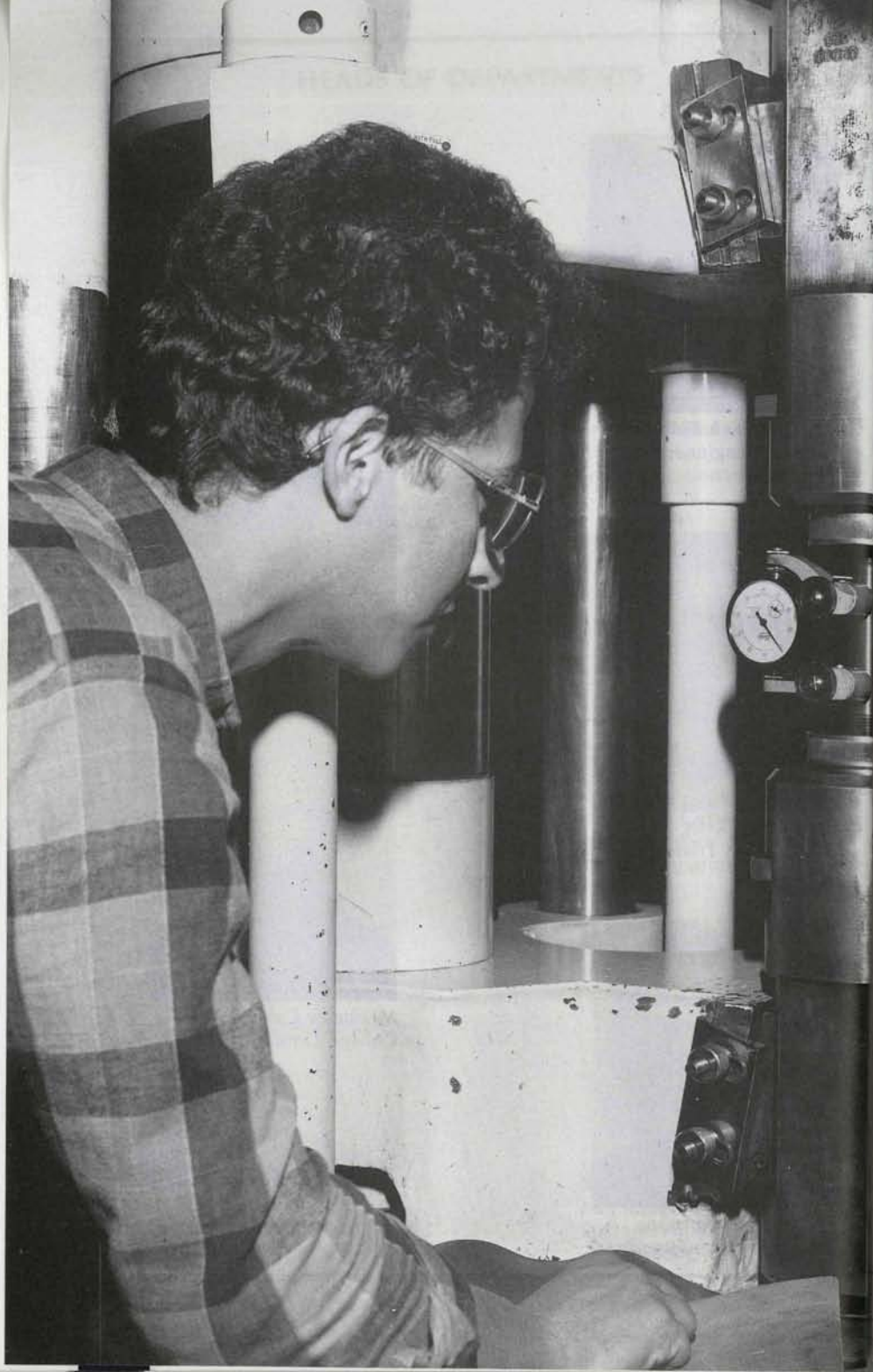


**Dr. Patrick McCormack**  
Industrial Liaison Officer



**Mr. Peter Cahalane**  
College Librarian





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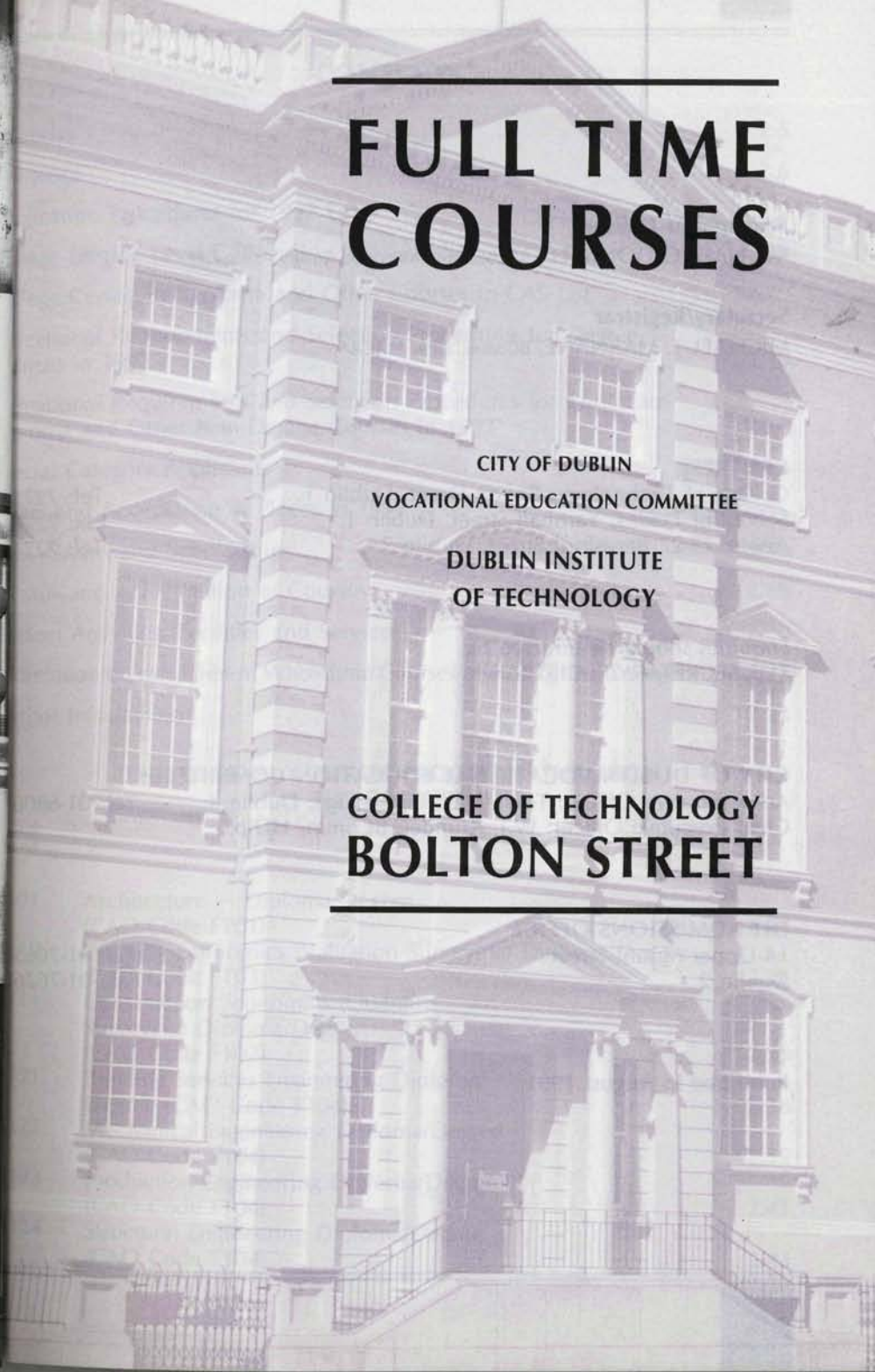
# FULL TIME COURSES

CITY OF DUBLIN  
VOCATIONAL EDUCATION COMMITTEE

DUBLIN INSTITUTE  
OF TECHNOLOGY

COLLEGE OF TECHNOLOGY  
BOLTON STREET

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### Principal of College

MICHAEL O'DONNELL, BE, BComm, MEconSc, Eurlng, CEng, FIEI

### Secretary/Registrar

MICHAEL J. MARNANE, BComm, DPA, MACRA

### CENTRES:

College of Technology, Bolton Street, Dublin 1.  
School of Trades, Yarnhall Street, Dublin 1.  
Annex 23-27 Beresford Street, Dublin 7

*Enquiries should be directed to:*  
THE SECRETARY/REGISTRAR.

### CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE:

Administrative Offices: Town Hall, Ballsbridge, Dublin 4.  
Chief Executive Officer: W.J. Arundel, BComm, HDip.

Tel: 01-6806

### DIT ADMISSIONS OFFICE

14 Upper Mount Street  
Dublin 2

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Published in August 1991

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### DEGREE LEVEL COURSES PROCESSED THROUGH THE CAO LIST

College Course Code		
B101	Architecture — Diploma/Degree (CAO Code FT01)	2.24
B110	Property Economics (Valuation Surveying) Diploma/Degree (CAO Code FT03)	2.28
B111	Construction Economics (Quantity Surveying) Diploma/Degree (CAO Code FT02)	2.29
B121	Building Services Engineering Diploma/Degree (CAO Code FT04)	2.38
B122	Mechanical Engineering Diploma/Degree (CAO Code FT04)	2.39
B123	Production Engineering Diploma/Degree (CAO Code FT04)	2.41
B124	Structural Engineering Diploma/Degree (CAO Code FT04)	2.43



## CERTIFICATE, DIPLOMA AND OTHER COURSES PROCESSED THROUGH THE CAS LIST

College  
Course  
Code

B102	Architectural Technician Diploma (CAS Code DT102)	2.1992
B114	Construction Technician Certificate and Diploma (CAS Code DT114)	2. February 1st
B115	Geo-Surveying Technician Certificate and Diploma (CAS Code DT115)	2.
B116	Auctioneering Valuation and Estate Agency Certificate and Diploma (CAS Code DT116)	2. March 31st
B120	Preliminary Engineering Course (CAS Code DT120)	2.
B126	Civil Engineering Technician Certificate and Diploma (CAS Code DT126)	2. August 1st
B127	Building Services Engineering Technician Certificate and Diploma (CAS Code DT127)	2.
B128	Mechanical Engineering Technician Certificate and Diploma (CAS Code DT128)	2. August 24th
B130	Technician Certificate in Printing and Diploma in Printing Management (CAS Code DT130)	2. September 4th
B131	Graphic Reproduction Technology Diploma (Application for admission to this course must be made directly to the College.)	2. September 7th
B150	Technician Certificate in Transport Engineering/Diploma in Motor Industry Management (CAS Code DT150)	2. September 14th
B171	Buildings Maintenance Technician Certificate (CAS Code DT171)	2.
	Location Map	Inside Back Cover

## CALENDAR

For Applicants to College Wholetime Courses  
in the 1992/93 Session

Closing date for receipt of applications from EC applicants by CAO/CAS at ordinary fee of £17. Overseas applicants must apply by 15th December 1991 and pay a fee of £36.
Closing date for EC late applicants at £26 fee. Latest date for completing course choice columns on page 2 of CAO/CAS application form, if choice has been deferred when submitting application form.
Final closing date for EC late applicants for College courses paying £40 fee. Final date for availing of change of mind facility in respect of course choices where allowed.
Expected date for issue of First Round offers.
Expected final date for acceptance of First Round offers.
Expected date for issue of Second Round Offers.
Courses are expected to commence during the week of September 14.

### NOTE:

- (i) Applicants should read carefully the CAO/CAS Joint Handbook 1992 before submitting an application.
- (ii) Applicants note that late applications are not accepted for courses FT01 and DT01. Neither may these be introduced into an application for the first time after February 1st 1992.
- (iii) The information in this booklet is intended as a guide for persons seeking admission to the College and shall not be deemed to constitute a contract on the terms thereof between the College and a student or any third party. The College reserves the right to change or modify any of the courses or information relating to them or other aspects as outlined in this publication without prior notice.



## FOREWORD BY THE PRINCIPAL



**T**his booklet has been prepared to provide you with information about the wholtime courses offered by the College of Technology, Bolton Street, Dublin 1 and how to apply for them. We are aware of the difficulties facing young people in deciding on careers and selecting the most suitable courses to prepare for them and hope that you will find the booklet informative and helpful. We encourage you to consider carefully the course options that we have to offer in this College.

Since Bolton Street is but one of the six Colleges of the Dublin Institute of Technology, each of which plays a complementary role in the provision of third level education, its range of programmes is necessarily concentrated. We offer considerable opportunities to those wishing to prepare for the important professions of Architecture, Engineering and Surveying and careers related to these disciplines in Construction, Manufacturing and Transport. The College is also the main centre in Ireland preparing young people for entry into the Printing Industry. Each of these sectors makes a vital and major contribution to the economy and consequently should offer many challenging and rewarding job opportunities in the decades ahead.

There are many things one could say about the College and its programmes which may interest you. It is a technological education institution with the prime objective of assisting young people to acquire the knowledge and expertise necessary for fulfilling and rewarding careers. Our well qualified and experienced staff and extensive range of laboratories, workshops, computing, library and other facilities provide the basis for a vigorous and lively academic community. The College has a national and international reputation and the record of achievements of its graduates is something of which it is justifiably proud. If you decide to apply and obtain a place, we hope that you will enjoy your stay with us.

Michael O'Donnell

## APPLICATION PROCEDURES FOR 1992 ENTRY

Significant changes were introduced into the application procedures for entry into wholtime third-level courses in this country in 1991, with the objective of eliminating the necessity to make multiple applications as heretofore to the CAO, DIT, individual RTCs etc. and paying multiple application fees.

The CAO (Central Applications Office) had been established in 1976 to process applications centrally for admission to undergraduate courses in universities and other colleges in an efficient and equitable manner. DIT has used the CAOs services for a number of years to process applications for all its degree courses while it operated a separate DIT applications system for its other courses.

A new organisation was established in 1990 known as CAS (Central Applications Service) for the purpose of dealing with applications to the Irish third-level technological Colleges on a centralised basis. Its membership is representative of the six Dublin Institute of Technology (DIT) Colleges, the nine Regional Technical Colleges, Limerick College of Art, Commerce and Technology (CoACT), and the Crawford College of Art and Design.

### Joint CAO/CAS Application Form

The CAO and CAS organisations entered into an arrangement in 1990 whereby applicants, using a single application form, may choose from the entire range of courses in the CAO and CAS systems. There are two sections on the application form for the 1992 entry and using these an applicant may choose

- (a) up to ten courses in order of preference from the courses included under the title 'CAO List' in the CAO/CAS handbook (which includes all DIT Degree courses).
- (b) up to ten courses in order of preference from the courses included under the title 'CAS List Diploma/Certificate/ Other'. This includes all wholtime Certificate, Diploma and non degree courses offered by the DIT and other technological colleges.

The joint CAO/CAS applications system is administered from the CAOs premises at Tower House, Eglington Street, Galway. Copies of the 1992 CAO/CAS Handbook which provides all relevant information about the CAO/CAS joint application system and the courses which are included in it are available on request as are Application Forms.



<b>Application Fees</b>	Irish and other EC Applicants (ordinary fee)	£17
	Late applications (received between 2 February and 31 March)	£26
	Late applications (received after 31 March)	£40
	Overseas applicants (ordinary fee)	£36

<b>Closing Dates</b>	Irish and other EC Applicants	1 February 1992
	Overseas Applicants	15 December 1991

**Due to the inclusion of Aptitude Tests and other assessments as part of the selection process, applications received after 1 February 1992 cannot be considered for the Architectural courses, FTO1 in the CAO List, and DT102 in the CAS List.**

Late applications will **not** be considered from Overseas applicants if received after 15 January 1992.

With the exception of the two Architectural courses referred to above late applications in respect of all other courses offered by the College and included in the CAO and CAS lists will be considered from Irish and other EC applicants if received by 1 August, 1992.

**Postponement of Course Choice** When submitting their application forms applicants may postpone entering their course choices in either or both sections of the application form until 31 March 1992. If they avail of this provision they must then communicate their course choices to the CAO/CAS office before 31 March at the latest.

After an application is submitted an applicant may change his/her course choices as often as he/she wishes up to 1 August.

These facilities are **not** available to applicants for the Architectural courses, FTO1 in the CAO List, and DT102 in the CAS List 2 for the reasons already indicated in a previous section.

**Further Information** Further information about the Joint CAO/CAS Application System for 1992 entry are given in the CAO/CAS Handbook and on the Application Form, both of which are available from:

CAO / CAS,  
Tower House,  
Eglinton Street,  
Galway.  
Tel: 091 63318/63269  
Fax: 091 62344

## COLLEGE DEGREE LEVEL COURSES IN THE CAO LIST

The following degree level courses offered by the college are in the CAO List. Graduates of these courses are eligible for DIT Diplomas. They are also eligible for degree awards of the University of Dublin (Trinity College).

College Course Code	CAO Course Code in 1992	Course Description	Course Duration (Years)
B101	FT01 ARCHGDEG	Architecture	5
B110	FT03 PECDEG	Property Economics	4
B111	FT02 ECNDEG	Construction Economics	4
*B121	*FTO4 ENGDEG	Building Services Eng.	4
*B122		Mechanical Engineering	4
*B123		Production Engineering	4
*B124		Structural Engineering	4

\*These four courses have a common first Year. The allocation of Second Year places on one or other of the courses will as far as possible be in accordance with the students choice, subject to availability. The final assignment of places in the Second Year of the courses will be at the discretion of the Department of Engineering Technology in the College.

*Under a Partnership Agreement with the University of Dublin students of the College are also eligible for appropriate degree awards with honours classification from the University without taking further examinations. Above is a group of Surveying graduates having received their B.Sc. (Surv.) Degree Awards.*





## COLLEGE CERTIFICATE/DIPLOMA AND OTHER COURSES IN THE CAS LIST

College Course Code	CAS Course Code in 1992	Course Description	Course Duration (Years)
**B102	DT102 ARCTEC	Architectural Technician Diploma	3
**B114	DT114 CONSTR	Construction Technician Certificate/Diploma	2/3
**B115	DT115 GEOSUR	Geo-Surveying Technician Certificate/Diploma	2/3
**B116	DT116 AUCVAL	Auctioneering Valuation & Estate Agency Certificate/Diploma	2/3
B120	DT120 PRLENG	Preliminary Engineering	1
**B126	DT126 CIVENG	Civil Engineering Technician Certificate/Diploma	2/3
**B127	DT127 BSVENG	Building Services Engineering Technician Certificate/Diploma	2/3
**B128	DT128 MECENG	Mechanical Engineering Technician Certificate/Diploma	2/3
**B130	DT130 PRINTG	Printing Technician Certificate/Diploma in Printing Management	2/3
**B150	DT150 TRNENG	Transport Eng. Technician Certificate/Diploma in Motor Industry Management	2/3
**B171	DT171 BLDMNT	Buildings Maintenance Technician Certificate	2

\*\*ESF Grants may be available for students pursuing these courses.

## EDUCATIONAL REQUIREMENTS AND SELECTION PROCEDURES FOR ENTRY INTO FIRST YEAR OF COLLEGE DEGREE COURSES IN 1992

### Educational Requirements

- Courses FT01, FT02, FT03: Irish Leaving Certificate with passes in six subjects, two of which must be at Grade C or higher on higher level papers or an acceptable equivalent qualification. The six subjects must include Mathematics and English.
- Course FT04: Irish Leaving Certificate with passes in six subjects including Grade C or higher on higher level papers in Mathematics and one of the following subjects: Physics, Chemistry, Physics with Chemistry, Applied Mathematics, Construction Studies and Engineering or an acceptable equivalent qualification. The six subjects must also include English.

### Selection Procedures in 1992

Applicants are ranked in order of educational score merit in accordance with the points system shown below, allocated to the results of six subjects obtained in one Leaving Certificate examination which will yield the highest score. If an applicant presents two or more Leaving Certificate examinations the one yielding the best score will be credited. Generally demand exceeds the number of places available and qualifications well above the minimum are required.

- In the case of the Architectural course FT01/B101 applicants are required to take an aptitude test in March/April. Applicants who demonstrate a particular suitability in this test are invited to an interview assessment. A maximum of 100 points are awarded for the applicant's performance in the aptitude test and up to a further 100 points for the interview assessment. The results of the aptitude test and the interview assessment are combined with the total educational points scored in the six subjects as specified to produce an overall rating.
- In the case of the professional/degree level courses in Surveying and Engineering (i.e. FT02/B111, FT03/B110, FT04/B121-124) the selection is based on the educational score in six subjects as already described.

### POINTS SYSTEM APPLIED TO COMPUTING EDUCATIONAL SCORES IN RELATION TO COURSES IN BOTH THE CAO AND CAS LISTS IN 1992

Leaving Certificate Grade	Points for Higher Levels	Points for Ordinary Levels
A1	100	60
A2	90	50
B1	85	45
B2	80	40
B3	75	35
C1	70	30
C2	65	25
C3	60	20
D1	55	15
D2	50	10
D3	45	5

- Note: (a) The six best results in one Leaving Certificate examination will be counted for points computation.  
 (b) The results of only one sitting of the Leaving Certificate Examination will be counted.



## QUALIFICATIONS OTHER THAN THE IRISH DEPARTMENT OF EDUCATION LEAVING CERTIFICATE

The College gives consideration to qualifications other than the Leaving Certificate as meeting the entry requirements for its courses (such as the GCE or other qualification of equivalent standard). In accordance with a decision already announced, the NUI Matriculation is not acceptable as an appropriate DIT entry qualification since 1990.

Applicants for degree level courses may present a General Certificate of Education (GCE) with passes in six subjects including at least two at Advanced level. Overseas applicants must also satisfy the College as to their proficiency in written and spoken English.

Grades A, B and C at GCE Advanced Level meet the higher level paper requirements for degree courses. Grades D and E at GCE Advanced Level and Grades A, B and C at Ordinary Level GCSE are regarded as equivalent to ordinary Leaving Certificate passes.

## EDUCATIONAL REQUIREMENTS AND SELECTION PROCEDURES FOR ENTRY INTO THE FIRST YEAR OF COLLEGE CERTIFICATE, DIPLOMA AND OTHER NON-DEGREE COURSES IN 1992

### Educational Requirements

Leaving Certificate with passes in five subjects including Mathematics and English or an equivalent qualification.

### Selection Procedures

Eligible applicants are ranked in order of educational score merit in accordance with the points system shown in the previous section. Educational points are allocated to the results of the best six subjects obtained in one Leaving Certificate examination. If only five subjects are presented and the candidate meets the eligibility requirements they will be used to give the applicant's educational score.

- (i) In the case of the Architectural Technician Course DT102, applicants are required to take an aptitude test in March/April. Applicants who demonstrate a particular suitability in this test are invited to an interview assessment. A maximum of 100 points are awarded for the applicants performance in the aptitude test and up to a further 100 points for the interview assessment. The results of the aptitude test and the interview assessment are combined with the educational points scored in the best six Leaving Certificate subjects (or five if only that number is presented) to produce an overall rating.

- (ii) In the case of all other courses (i.e. DT114, DT115, DT116, DT120, DT126, DT127, DT128, DT130, DT150 and DT171) the selection is based on the educational points scored in the best six subjects in the Leaving Certificate (or five subjects if only five are presented).

**Note: Anyone interested in the College's 1991 educational requirements and selection procedures should consult the 1991/92 Fulltime course booklet.**

### Special Category Applicants

The following types of applicants are processed as special cases. All such applicants seeking admission to the First Year of any of the College courses listed in CAO/CAS Handbook should apply directly to CAO/CAS using the standard application form by the specified closing date. When returning the completed form applicants should ensure that page 3 is fully completed and include all documentary evidence available, including examination results, in support of their applications.

- (a) **Mature Applicants:** A mature student who is 24 years of age or over at the time of enrolment and who does not meet the normal minimum admission requirements may be considered for admission to appropriate courses after attending in person for interview and satisfying the College Authorities as to his/her ability to benefit from the proposed course. Such applicants may be required to sit and pass an entrance or suitability test before admission. The Application Form should clearly indicate "Mature Applicant" in the space provided on page 3.
- (b) **Overseas Students:** Overseas students seeking admission to the College should apply to CAO/CAS not later than 15th December, 1991 using the standard application form available on request. When completed this should be forwarded with documentary evidence of qualifications in English (translations should be certified by an appropriate authority) showing subjects passed, levels and grades obtained.

Because of the large number of applications received each year from qualified Irish applicants, and the limited number of places available, the College regrets that it may have to limit admission of overseas applicants to the small quota of places reserved for those who are sponsored by official agencies linked to Ireland's development aid programme.



(c) **Trade Students:** Students holding the Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or a science subject satisfy the minimum eligibility requirements for courses in the DIT Colleges which specify a pass in five subjects in Leaving Certificate Examination as the entrance requirement. Students holding this Certificate with three endorsements in academic subjects are eligible for consideration for entry into related professional/degree level courses provided that they also meet any special entry requirements (e.g. Higher Level Mathematics for Engineering courses). Where endorsements subjects are not offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education is an acceptable equivalent.

(d) **Holders of N.C.E.A. National Certificates and Diplomas or Similar Level Awards:** Applications for entry into the First year of any of the College's courses should be made using the standard CAO/CAS application form.

Applicants seeking admission into the Second or subsequent years should contact the College or DIT Admissions Office for a special application form and further information about the procedures. The closing date for such applications is 1st May, 1992.

Such applicants should request their former College to forward in confidence to the Admissions Office a full transcript of results (including subjects studied and grades obtained) as soon as they are available but in any event not later than 10th July. The applications will not be processed until this has been received.

(e) **Applicants Seeking Exemptions from one or more years of a College Course:** The general procedure is as in (d). Such applicants should ask their former College to forward in confidence to the College Admissions Office, a full transcript of previous attainments which it is claimed will justify the exemptions sought. The application will not be processed until this is received.

(f) **Transfer/Re-Entry Applications:** Current students who wish to transfer from one course to another within the College or previous wholtime students who wish to re-enter the College into a year other than the First Year should make a written application to the College Admissions Office (Room 315), stating clearly what is being sought and on what basis.

Queries relating to Special Category Applicants should be directed in the first instance to the College Admissions Office or to the Head of the appropriate Academic Department in the College.

## OFFERS AND ACCEPTANCE IN 1992

Applicants will be assessed in accordance with the procedures already indicated and offers of places will be issued simultaneously, where appropriate, in respect of the CAO List and the CAS List. While it is possible that an applicant may receive two offers [in respect of each list in accordance with the preference(s) entered] acceptance must be confined to one of them. Otherwise any offers made may have to be withdrawn.

### Acceptance Procedure

The acceptance procedure involves completing the appropriate section of the Offer Notice and returning it by the specified date after it has been duly stamped by a Bank to confirm that the required acceptance deposit has been paid. Further information about the Offer and Acceptance procedure is given on page 5 of the CAO/CAS Joint Handbook 1992.

The College will communicate in writing with the successful applicants for its courses in early September, advising them of registration procedures and the commencement date (which is expected to be during the third week of September).

Students attending for registration are required to present the following documentation:

- (a) the CAO/CAS offer notice carrying a bank stamp confirming acceptance.
- (b) three copies of a recent passport type photograph signed on the back.
- (c) other documentation as requested.

An applicant who is offered a place in a course which is not his/her first preference may subsequently be offered a place in a course of higher preference if such a place becomes available. This applies whether or not the earlier offer has been accepted by the applicant.

The acceptance deposit is transferrable if paid in respect of an offer made in an earlier round to that in a later round, even between different colleges or institutions (provided of course they are involved with the CAO/CAS application system).

### Deferral of Entry

If an applicant is offered a place on a course, it may be possible to defer entry for one year. An applicant wishing to avail of this facility should write as soon as possible after receiving the offer to the DIT Admissions Officer, 14 Upper Mount Street, Dublin 2, stating the reasons for seeking a deferral for one year. The letter should be received at the DIT Admissions Office at least two days before the closing date for acceptance of the offer.



## FEES, GRANTS AND SCHOLARSHIPS

Fees are payable before commencing attendance at classes and are not refundable except where a class or course does not form. An enrolment is not transferable from one student to another. Enrolment / registration is only complete when a student is issued with his / her official College Student Card. This must be retained by the student for inspection by staff at any time while he / she is in the College.

### FEES FOR ACADEMIC SESSION 1991/92

<b>(a) Irish and European Community Students</b>		
Wholetime Diploma/ Degree Courses	B101; B121; B122; B123; B124; B125 B110; B111	*£995 *£800
Wholetime Technician Certificate Courses	B114; B115; B116; B120; B126; B127; B128; B130; B150; B160; B171	*£505
Wholetime Technician Diploma Courses	B102; B114; B115; B116; B126; B127; B128; B130; B131; B150	*£530
<b>(b) Overseas Students from Non-European Community Countries</b>		
Wholetime courses		*£2,155

\*Includes College examination fees — NCEA examination fees are extra where applicable.

**Note:** Fees are likely to be revised in respect of the 1992/93 session.

## Grants and Scholarships

- (a) **Local Authority Grants:** Students who register for the Diploma/Degree level courses conducted by the College are eligible to apply to the Local Authority where their parents or guardians normally reside for a Higher Education Grant. Information on eligibility conditions and application forms are available from the appropriate Local Authority (County Council or Corporation).
- (b) **VEC Scholarships:** Students who register for courses leading Diploma/Degree awards which do not benefit from ESF Training Grants may be eligible to apply to the Vocational Education Committee of the area where their parents or guardians normally reside for a VEC Scholarship. Information on eligibility conditions and application forms are available from the appropriate Vocational Education Committee.

**Note:** Both Local Authority Grants and VEC Scholarships are of the same value and an applicant is not entitled to hold both simultaneously.

- (c) **ESF Training Grants:** ESF (European Social Fund) training grants may be available to Irish students aged over 16 years while they are pursuing certain two or three year courses provided their attendance record and general performance is satisfactory. These grants cover tuition fees and also provide for payment of a monthly allowance. The courses which are included in the scheme for the 1991/92 session are marked by a double asterisk(\*\*) in the Table on page 2.10. For Session 1990/91, a grant of £15.19 per week (full attendance) was payable to students who travel or who could reasonably be expected to travel daily between their home and the College, or whose home is within 15 miles of the College. A grant of £38.14 per week (full attendance) was payable to other eligible students.

- (d) **Ivan Webb Scholarships:** The Construction Industry Federation and the Master Builders Association have established a scholarship fund to commemorate the late Ivan Webb, a former Council member of both bodies, who was killed in the Stansted air disaster. The object of the scholarship fund is to assist students in pursuing their course of study. The scholarships apply to full-time and part-time Construction Technician Courses in the College and are awarded on the following basis: One scholarship valued at £500 to the student attaining the highest place in the results of the year's work and examinations in the first year of the full-time course and two scholarships valued at £250 each to the two students attaining the highest places in the year's work and examinations in the second year of the part-time course.

- (e) **The G.H. Minet Insurance Co. Scholarship:** This company, in association with the Construction Industry Federation, has initiated a scholarship scheme which is open to students who have completed a construction trade apprenticeship and have gained admission to designated construction related whole time courses conducted by the College. The scholarship will be advertised locally within the College and may have a value of up to £1,000 per annum. Enquiries about it should be directed to the Principals Office.

- (f) **BETA Scholarships:** These are offered by the Engineering Graduates of the College to nominated students in the whole time degree level Engineering courses who achieve particularly a meritorious performance in the previous year of their course. The BETA Silver Medal is awarded to the outstanding Engineering degree graduate each session.



(g) **McInerney Scholarships:** To mark the seventy-fifth anniversary of its establishment and its close association with the College, the firm of Thomas McInerney & Company Ltd., Builders and Contractors, initiated a special scholarship scheme in 1984. This provides encouragement and support for students who have achieved an outstanding level of performance in the Construction Technician whole time and part time courses and wish to continue their studies in the Construction Economics Diploma/Degree courses. Two scholarships each valued at £500 may be awarded each year on the nomination of the College.

(h) **John Sisk & Sons Scholarship Fund:** To mark the 50th anniversary of the commencement of the firms building operations in Dublin this fund was established to assist students who on successful completion of the Construction Technician Diploma continue their studies in the College in preparation for the examinations of the Chartered Institute of Building. A scholarship of value up to £1,000 may be awarded to a student who achieves exceptional performance in years work and examinations in the Final year of the Diploma course and enrolls in the course leading to the CIOB examination.

(i) **AIB Bursaries:** AIB, in association with the Association of Vocational Education Colleges, has been operating a scheme of bursaries to support and encourage students who have already successfully completed a Certificate or Diploma course in a VEC College and were accepted for transfer to a Degree level course in the same sector. Eligible candidates were required to have achieved a high level of performance and not be in receipt of any other grant or scholarship. The scheme is at present under review.

(j) **Bank Loans:** The major banks are prepared, under normal circumstances, to consider applications from students for loans, and enquiries about these should be directed to the banks.

## AWARDS AND ACCREDITATION OF COURSES

All wholetime third-level courses conducted by the College (except the Preliminary Engineering Course B120) lead to Dublin Institute of Technology (DIT) Diploma or Certificate awards as appropriate. The majority of these awards are of long standing and are widely recognised by employers, professional bodies and academic institutions in Ireland and abroad. The courses are reviewed and assessed regularly and their standards are vouched for each year by a distinguished panel of external examiners, some of whom are drawn from other countries to ensure the international recognition of the awards.

In relation to a number of the courses there is a system of parallel awards available to those graduating. In 1976 the City of Dublin Vocational Education Committee and the University of Dublin entered into a formal agreement by which degree awards of the University with Honours classifications are available to graduates of the College who successfully complete appropriate courses in Architecture, Engineering and Surveying. Details of these awards are given under the individual course entries.

Since 1972 National Certificate and Diploma awards have been made to those graduating from the Building Services, Civil, and Mechanical Engineering Technician programmes by the National Council for Educational Awards (N.C.E.A.). More recently similar arrangements were made in relation to the Geo-Surveying, Auctioneering Valuation and Estate Agency, Buildings Maintenance, Printing, and Graphic Reproduction courses.

The College attaches high priority to ensure that its graduates meet the academic requirements of the appropriate professional bodies and periodically it receives visitations from them to accredit the various course programmes.



## STUDENT ACTIVITIES, FACILITIES AND SERVICES

### Students Union

The Student Union is the students' representative body in the College. It promotes the social and organisational side of student life and sees after the interest of students in the College. Every student becomes a member of the union on enrolment. It is affiliated to the Union of Students in Ireland.

The Union is administered by an executive which is elected annually by the student body and is headed by two sabbatical fulltime officers — a President and a Deputy President who are responsible for the overall co-ordination of union policy in addition to the day to day running of the Union. The Deputy President has specific responsibility for welfare, sports clubs and course related issues. Each class elects its own representative who acts as spokesperson to their Department and Student Union Executive.

The Union provides a number of commercial services including a student shop selling stationery, drawing equipment, confectionery and newspapers and it also provides photocopying services. It issues the International Students Identity Card (USIT Card) and provides information on student welfare and travel.

Other services provided by the Union include assisting members in finding suitable accommodation, organising lunchtime concerts, discos and other social events and promoting College clubs and societies.

Full time Officers for 1991/1992 session

President: Jeremy Waring

Deputy President: Douglas Scully

### Restaurant Facilities

The College has an extensive Restaurant which is open throughout the session for lunches and teas as well as morning and afternoon snacks.

### First Aid Service

A First Aid service is provided in co-operation with the Order of Malta.

### Physically Disabled

Physically disabled applicants are welcome to the College and most areas in it should be readily accessible to them. Students who may require special attention or have an unfavourable medical history are asked to provide details in writing to the College Secretary/ Registrar in advance of enrolment.

### Banking Facilities

The College has a banking facility on campus which is currently operated by the Bank of Ireland.

### The College Library

The College Library has seats for 450 readers, and is open for about 60 hours per week over six days a week during term time. The Library has some 50,000 volumes and most of the collection is on open access to readers.

Extensive collections of appropriate technical journals, slides, videos and sound tapes are available for use in the Library. Library equipment includes photocopiers, microfiche readers and other information services, a microfiche printer, a microfilm printer, VCRs and monitors, tape slide viewers and a CD-ROM drive.

#### Hours of Opening

Term Time — Monday — Thursday 9.30 am — 9.30 pm

Friday 9.30 am — 5.30 pm

Saturday 9.30 am — 1.00 pm

### College Computing Facilities

The Computing facilities of the College involve both centralised and local resources. The centralised facilities are currently based on a VAX cluster of an 8600 and 8350 which are housed in the DIT Computing Centre at 14 Upper Mount Street. These are networked with the facilities of the individual DIT Colleges over leased Bord Telecom lines. The College has its own DEC System 5400 multi-user system and extensive microcomputing facilities including Wang and terminal networks as well as significant numbers of IBM, Compaq, Wyse and Prompt stand alone units.

*A section of the College Library.*





The College also has a ten unit Apple Desk Top Publishing system, an Advanced Manufacturing Laboratory and other specialised computer based equipment. It has recently installed ten high powered Work Stations with extensive graphics facilities.

#### **Counselling Service**

The DIT Student Counsellor offers students professional advice relating to academic, personal and vocational matters on a confidential basis.

#### **Chaplaincy**

A multi-denominational chaplaincy service is available to promote the development of the college community in both the spiritual and temporal sense. A number of religious services are held during the session.

#### **Clubs and Societies**

There are a large number of active clubs and societies in the College including

##### **Clubs**

Badminton, Basketball, Canoeing, GAA, Cycling, Equestrian, Golf, Mixed Hockey, Karate, Mountaineering, Orienteering, Rugby, Sailing, Soccer, Squash, Ski, Swimming/Polo, Table Tennis, Walking, Weights and Wind Surfing.

##### **Societies**

Architectural Students Association, Auctioneers and Valuers, Business, Cáirdeas, Construction Technician, Christian, Engineering Technician, Film, Geo Surveying, Green Society, Motor Industry Management, Photographic, Printing, Property Economics, Quantity Surveyors, Students Against Destruction of Dublin (SADD), Student Engineers (SSE), Engineering Technicians (SETS), Third World, St. Vincent de Paul and Romanian Response.

## **INFORMATION ON THE WHOLETIME COURSES OFFERED BY THE COLLEGE ARE ON THE PAGES THAT FOLLOW**

### **FOR FURTHER INFORMATION CONTACT**

#### **College Admissions Office (Room 315)**

Officer in Charge: Mr. Liam Cooke

#### **Architecture and Town Planning (Room 441)**

Mr. John O'Keeffe (Dept. Head)

#### **Surveying & Building Technology (Room 341)**

Mr. Eanna de Burca (Dept. Head)

#### **Buildings Maintenance (School of Trades)**

Mr. Joseph Bernie (Head of School)

#### **Engineering Technology (Room 241)**

Mr. Oliver McNulty (Dept. Head)

#### **Transport Engineering (Room 119)**

Mr. Dominic Tuite (Dept. Head)

#### **Printing & Graphic Communications (Room 217)**

Mr. Brian Kennedy (Dept. Head)

#### **College Secretary/Registrar Mr. Michael Marnane**

#### **College of Technology Bolton Street Dublin 1**

Tel. 01-727177

Fax. 01-727879

#### **DIT Admissions Office 14 Upper Mount Street Dublin 2**

Tel 01-766584

Fax 01-762608

Details of part-time and craft apprenticeship courses are given in another section or publication.



**ARCHITECTURE: DIPLOMA/DEGREE****CAO Course  
Code FT01**

This is a five year wholtime course which prepares students wishing to make their careers in Architecture. The course covers a wide range of subjects and aims at a synthesis of knowledge gained from the use of these subjects in architectural design projects culminating in a Final Year Thesis in the design of a major building. Students are required to gain professional experience in architectural office practice during the summer vacations and, in this way, enhance their studies and their ability to work individually, or as members of a team.

**Eligibility Requirements**

The minimum educational qualification required for entry is the Leaving Certificate with passes in six subjects, at least two of which must be at Grade C or higher in the higher level course, or an equivalent qualification. The six subjects must include Mathematics and English.

Applicants will be required to undertake an aptitude test and, if successful in this, they are also interviewed as part of the selection process.

**Course of Study****First Year**

Studio Work; Physics I, Chemistry I, Mathematics & Statistics, Civilisation Studies I, Theory of Architecture I, Mechanics, Building Construction I, Trade Practice.

**Second Year**

Studio Work; Building Materials, Building Construction II, Civilisation Studies II, Chemistry II, Physics II, Building Services, Structural Engineering I, Theory of Architecture II.

**Third Year**

Studio Work; Environmental Science, Civilisation Studies III, Interior Design, Surveying & Levelling, Theory of Architecture III, Building Construction III, Structural Engineering II, History of Urbanism, Computer Applications.

**Fourth Year**

Studio Work; Economics and Cost Control, Civilisation Studies IV, Structural Engineering III, Building Construction IV, Professional Practice I, Urban Studies, Theory of Architecture IV, Computer Applications.

**Fifth Year**

Studio Work; Economics and Cost Control, Urban Design, Professional Practice II, Structural Engineering IV, Conservation Studies, Building Construction V.

**Awards**

Graduates of this course are eligible for the following awards:

**Diploma in Architecture (Dublin Institute of Technology)**  
**Bachelor of Architectural Science (University of Dublin)**

They are also eligible on graduation for Associate Membership of the Royal Institute of Architects of Ireland. Following two years of post-graduate experience they may take the Institute's examination in Professional Competence and thus become Members of the RIAI. Success in the third year of the Diploma in Architecture Course gives exemption from the Intermediate Examinations of the RIAI.

The Diploma in Architecture of the College is a qualification which is recognised for the profession of architect in member States of the European Economic Community.

**Career Opportunities**

The qualification is for the profession of Architect. Architects are concerned with the design of buildings and supervision of building projects. They may practice in a personal professional capacity, or in employment in private and public sector organisations. The field of practice is quite extensive in Ireland and abroad and may offer alternatives of general practice or specialisation throughout a career. Some graduates spend a time abroad to gain wider and more varied design experience.

The course and the career require a creative aptitude for design on the scale of architecture and the organisational ability for its implementation in practice. The range of subject material in the course is wide, and calls for an interest and ability in artistic and cultural aspects as well as in technical matters and in managerial skills.

**Department in Charge**  
**Architecture & Town Planning**



## ARCHITECTURAL TECHNICIAN: DIPLOMA

CAS Course  
Code DT102

This is a three-year wholetime course leading to an Architectural Technician Diploma award. It aims to give the student a high standard of architectural and technical drawing and presentation, with a good knowledge of building construction, materials, methods and equipment. The course uses the project system extensively during which students are required to prepare working drawings, details, schedules etc. for building work. Lectures in selected subjects such as Building Construction, Structures, Materials and Services are integrated with the projects as far as possible. During the summer vacation period students are encouraged to obtain suitable practical work experience to complement their College training.

### Eligibility Requirements

Leaving Certificate with passes in five subjects including Mathematics and English or an equivalent qualification. Applicants will be required to undertake an aptitude test, and if successful in this they are also interviewed as part of the selection process.

### Course of Study

#### First Year

Construction Projects, Surveying & Levelling, Mechanics & Structures, Building Construction, Graphics & Geometry, History & Theory of Architecture, Building Science & Materials, Computer Applications and Crafts.

#### Second Year

Construction Projects, Surveying & Levelling, Structures, Building Services, Building Construction, Building Science & Materials, System Building & Prefabrication, Computer Applications and Crafts.

#### Third Year

Constructional Projects, Construction Technology, Building Materials, Structures, Building Contracts, Architectural Practice & Procedure Specifications, Computer Applications and Crafts.

### Awards

Graduates from this course are eligible for the following award:  
**Architectural Technician Diploma (Dublin Institute of Technology)**

*Architectural staff  
and students in  
one of the College  
studios.*

This Diploma is recognised for Membership by the Institute of Architectural and Associated Technologists, and for Technician Membership by both the Incorporated Association of Architects and Surveyors, and the Royal Institute of the Architects of Ireland. It is also recognised for Associate Membership of the Society of Architectural and Associated Technicians (SAAT) in the U.K. and for full Membership subject to approved post-graduate experience.

### Career Opportunities

The majority of graduate Architectural Technicians are employed in private professional architectural offices. Other areas of employment are the architectural and technical sections of Government Departments, semi-state bodies, local authorities, and the building industry generally, with contractors and manufacturers. A number choose to work overseas for a few years to gain useful and wider experience.

**Department in Charge**  
**Architecture & Town Planning.**





## PROPERTY ECONOMICS: DIPLOMA/DEGREE

### CAO Course Code FT03

This is a four year wholtime course which prepares students who wish to make their careers in Valuation Surveying, Property Management and Investment, and Estate Agency. It is also suitable for those interested in Property Development and Town Planning. Graduates may be employed as valuers, estate agents, property advisors, developers and planners. The course provides an education in the financial, legal, planning and construction aspects of property in the context of the investment market in general and it provides students with a thorough understanding of the economic functioning of the built environment.

#### Eligibility Requirements

The minimum educational qualification required for entry is the Irish Leaving Certificate with passes in six subjects, at least two of which must be Grade C or higher in higher level papers or equivalent qualifications. The six subjects passed must include Mathematics and English.

#### Course of Study

##### First Year

Urban Sociology, Economics, Quantitative Methods, Valuations and Professional Development, Land Surveying, Construction Technology, Law.

##### Second Year

Law, Construction Technology, Property Management and Marketing, Quantitative Methods, Valuations, Planning Economics.

##### Third Year

Maintenance of Buildings, Valuations, Urban Economics, Planning, Taxation, Investment Analysis. During this year students undertake a major integrated project.

##### Fourth Year

Valuations, Urban Economics, Planning, Taxation. In the fourth year each student prepares a major dissertation as part of the Final Examination.

#### Awards

Graduates of this course are eligible for the following awards:  
**Diploma in Property Economics (Dublin Institute of Technology)**  
**Bachelor of Science (Surveying) (University of Dublin).**

Upon successful completion of a test of professional competence, holders of these awards are eligible for Corporate Membership of the Royal Institute of Chartered Surveyors (General Practice Division). They are exempted from the Intermediate Examination of the Royal Town Planning Institute and are also accepted for entry to appropriate post-graduate courses in Ireland and abroad. The course is also recognised by the Irish Auctioneers and Valuers Institute.

#### Career Opportunities

The qualification is for the profession of Chartered Surveyor, which includes occupations in the fields of construction, property management and investment.

Property Economists are concerned with the broader areas of land and property development, valuation surveying, estate management and town planning. Graduates of the course have been employed in a wide variety of occupations in the property and construction sectors of the economy including firms of Estate Agents and Auctioneers, the major banks, insurance and other public and private sector organisations having large property portfolios. In addition they have found employment as property consultants and in valuations and rating.

The courses and careers in the discipline of Surveying call for an interest and ability in the financial and legal aspects of the property industry, and in the managerial skills applied to building and property developments.

#### Department in Charge Surveying & Building Technology

## CONSTRUCTION ECONOMICS: DIPLOMA/DEGREE

### CAO Course Code FT02

This is a four year wholtime course which prepares students wishing to make their careers in Construction Economics. It is designed for those who wish to work as quantity surveyors and economics advisors in the construction industry or as building development co-ordinators and building managers. The course provides a sound general education in the different aspects of this field with emphasis on practical construction economy and, in consequence, the course incorporates such project work. Students are encouraged to gain industrial and professional experience during the summer vacations and in this way they are introduced to applying their technical knowledge to practical problems, working individually or as a team.



### Eligibility Requirements

The minimum educational qualification required for entry is the Leaving Certificate with passes in six subjects, at least two of which must be at Grade C or higher in the higher level course or an equivalent qualification. The six subjects must include Mathematics and English.

### Course of Study

#### First Year

Quantitative Methods, Construction Law, Economics & Financial Management, Construction Studies, Measurement and Professional Development.

#### Second Year

Quantitative Methods, Construction Management, Construction Law, Economics & Financial Management, Construction Studies A and B, Land Surveying, Measurement.

#### Third Year

Construction Management, Administration of Contracts & Law, Economics & Financial Management, Construction Studies A & B, Measurement, Building Economics.

#### Fourth Year

Building Economics, Construction Administration & Management, Measurement.

In the fourth year, each student prepares a major dissertation as part of the final examination.

### Awards

Graduates of this course are eligible for the following awards:

**Diploma in Construction Economics (Dublin Institute of Technology)**

**Bachelor of Science (Surveying) (University of Dublin)**

Upon successful completion of a test of professional competence, holders of these awards are eligible for corporate membership of the Royal Institute of Chartered Surveyors (Quantity Surveyors Division), and the Construction Surveyors Institute. The Chartered Institute of Building requires graduates to undergo an additional examination in management subjects and satisfy an interview board as to their professional experience before admitting them to membership. Graduates are also accepted for entry to appropriate post-graduate courses in Ireland and abroad.

### Career Opportunities

The qualification is for the profession of Chartered Surveyor, which includes occupations in the field of construction and property management.

Construction Economists are concerned with the more detailed aspects of the construction and site development. They may specialise as quantity surveyors, in which case they analyse building designs for purposes of cost planning, detailed tendering and cost control. Alternatively they may practice, as building managers with responsibility for the organisation of contracts, for labour, materials, plant, and negotiations with main and sub-contractors.

The courses and careers in the discipline of Surveying call for an interest and ability in the financial and legal aspects of the construction industry, and in the managerial skills applied to building and property developments. In general, Construction Economics graduates have obtained employment in quantity surveyors offices and in the construction industry with contractors and developers.

### Department in Charge

**Surveying & Building Technology.**

B114

## CONSTRUCTION TECHNICIAN: CERTIFICATE/DIPLOMA

**CAS Course  
Code DT114**

This is a wholetime course leading to a Construction Technician Certificate award after two years and a Diploma award on completion of an additional year. It is designed to meet the needs of the construction industry for technical staff having a sound understanding of the principles of construction and construction materials, together with a good appreciation of management skills and the economics of the industry.

### Eligibility Requirements

#### First Year:

Leaving Certificate with passes in five subjects including Mathematics and English, or an equivalent qualification.

#### Third Year (Diploma Stage):

Applicants are expected to have reached a good standard at the end of the Certificate or Second Year, or possess an equivalent qualification acceptable to the College.



## Course of Study

### First Year

Builders Accounts, Building Materials & Environmental Science, Mathematics, Construction Technology I, Site Surveying I, Quantity Surveying I.

### Second Year

Construction Technology II, Quantity Surveying II, Builders Accounts II, Site Surveying II, Estimating, Contract Law and Economics.

### Third Year

Quantity Surveying, Building Management, Economics, Contract Law, Construction Technology III, Contract Administration.

Students are encouraged to gain industrial experience during the summer vacation.

### Awards

Students who successfully complete the course are eligible for the following awards:

**Construction Technician Certificate (Dublin Institute of Technology)**

**Construction Technician Diploma (Dublin Institute of Technology)**

Holders of the Diploma are eligible for Membership Part I of the Chartered Institute of Building following two years experience in building practice. The Construction Surveyors Institute admits holders of the Diploma to Licentiate Membership.

### Career Opportunities

These awards are particularly suitable for those who wish to attain positions relating to production planning, purchasing, quality control, estimating, surveying, inspection and general administration in the Construction Industry. They also provide a suitable background for those who wish to make their careers in building in the public sector (i.e. Central and Local Government).

The majority of past graduates work in building firms as Estimators, Building Surveyors, Programmers, Planners, Contract Managers and Site Managers. Many have attained a high level in management where they are now executive directors or managing directors. Other graduates are working for consultants in various capacities.

**Department in Charge**  
**Surveying & Building Technology.**

B115

## GEO-SURVEYING TECHNICIAN: CERTIFICATE/DIPLOMA

**CAS Course**  
**Code DT115**

This wholtime course prepares students for a Technician Certificate award in Geo-Surveying after two years and a Technician Diploma award on completion of an additional year.

There is an appropriate balance between the theoretical and practical aspects of Geo-Surveying thereby ensuring a sound understanding of the applications of its technology. Project work is a significant feature of the course and is an important element in the overall assessment.

### Eligibility Requirements

#### First Year:

Leaving Certificate with passes in five subjects including Mathematics and English or an equivalent qualification. A modern continental language (especially German) is desirable to facilitate subsequent movement to other EC countries for further study or work experience.

#### Third Year (Diploma Stage):

Applicants are normally expected to have reached Credit or Distinction level in the Certificate Examination at the end of the

*At work in a  
computer  
laboratory.*





Second Year in order to qualify for admission to the Third Year. However, those holding a Pass Certificate and at least one year of appropriate post-Certificate experience will be considered.

### **Course of Study**

#### **First Year**

Mathematics & Statistics, Survey Methods and Practice, Instrumentation, Liberal Studies, Computer Science, Science for Surveying, Cartography.

#### **Second Year (Certificate Stage)**

Mathematics & Statistics, Instrumentation, Survey Methods & Practice, Mine & Engineering Surveying, Photogrammetry, Science for Surveying, Cartography, Computer Science, Construction Engineering.

#### **Third Year (Diploma Stage)**

Mathematics & Statistics, Mine & Engineering Surveying, Survey Methods & Practice, Astronomy, Law, Photogrammetry, Cartography, Construction Engineering, Group Project.

Field camps are conducted at the end of both the First and Second Years. In addition students are expected to gain practical experience during the summer vacation.

### **Awards**

Graduates from this course are eligible for the following awards:

- (a) **Technician Certificate/Diploma in Geo-Surveying (Dublin Institute of Technology)**
- (b) **National Certificate/Diploma in Geo-Surveying (National Council for Educational Awards)**

Diplomates with appropriate experience are eligible for membership of the Irish Institution of Surveyors.

Holders of the Diploma are also eligible for membership of the Institute of Civil Engineering Surveyors and for exemptions from the Part I/II Land Survey Examination of the Royal Institution of Chartered Surveyors.

### **Career Opportunities**

Graduates may be employed in a wide variety of occupations such as with engineering, land survey and hydrographic consultancies as well as with mining, photogrammetric and construction companies. Flexibility and ability to respond to changing technology enhance career prospects.

The work can be very varied due to the variety of survey sites requiring different techniques and equipment but generally the work involves the preparation of a plan for a development or the setting out of a design on the ground for construction. The Geo-Surveyor should have a preference for an outdoor life and an ability to co-operate and work in a team with other specialists. Sophisticated optical and electronic instruments are commonly used in conjunction with computers and micro-processors in Geo-Surveying and some graduates specialise in the use of this equipment.

### **Department in Charge**

**Surveying and Building Technology**

### **B116**

#### **CAS Course Code DT116**

### **AUCTIONEERING VALUATION AND ESTATE AGENCY: CERTIFICATE/DIPLOMA COURSE**

This course has been developed to prepare students for a Certificate Award in Auctioneering, Valuation and Estate Agency after two years of wholtime study. Those who achieve a good standard in the Certificate may proceed to a Diploma award after a period of suitable employment. They are required to undertake a prescribed course of study and course assignments.

### **Eligibility Requirements**

Leaving Certificate with passes in five subjects including Mathematics and English, or an equivalent qualification.

### **Course of Study**

#### **First Year**

Valuations, Quantitative Methods, Economics, Law, Complementary Studies, Building Construction, Financial Management.

#### **Second Year**

Applied Valuations, Quantitative Methods, Property Management, Building Construction, Law, Planning, Financial Management.

#### **Third Year**

Valuations, Building Construction, Management Accounting, Marketing, and a Feasibility Study.



### Awards

Students who successfully complete the course are eligible for the following awards:

- (a) **Certificate in Auctioneering and Estate Agency** (after two years) and **Diploma in Auctioneering Valuation and Estate Agency** (after a further year) (**Dublin Institute of Technology**)
- (b) **National Certificate in Business Studies, (Auctioneering, Valuations and Estate Agency)** (after two years) and **National Diploma in Business Studies, (Auctioneering, Valuations and Estate Agency)** (after further year) (**National Council for Educational Awards**)

### Career Opportunities

The course is suitable for those wishing to prepare for a career as an auctioneer, estate agent and property valuer and aims to give an understanding of the legal, economic and physical framework within which the property market functions. It also aims to give the basic skills needed to practice as an auctioneer.

The Diploma course meets the academic requirements of the Irish Auctioneers and Valuers Institute (IAVI) and is recognised by the Institute of Professional Auctioneers and Valuers (IPAV). These are professional bodies in the field of Auctioneering and Estate Agency in the Republic of Ireland. The Diploma is also recognised by the Society of Chartered Surveyors in the Republic of Ireland as giving exemption from all except their final examinations. In addition the Diploma is recognised by the Incorporated Society of Valuers and Auctioneers in the UK as giving exemption from its Part II examination.

Auctioneers and Estate Agents are involved in the sales, lettings, management and valuation of property. Generally, they work either in partnerships or practice on their own account.

The career is suitable for those with an interest in people and in the built environment. Other desirable character traits are an outgoing nature together with an ability to get on with people.

**Department in Charge**  
**Surveying & Building Technology**

## B120

### CAS Course code DT120

## PRELIMINARY ENGINEERING

This is a one-year full-time course whose main purpose is to prepare for entry to the first year of the College's Engineering Diploma/Degree Courses B121, B122, B123 or B124, students who have not satisfied the specified entry requirements in terms of Higher Level Mathematics or appropriate Science subject etc.

### Eligibility Requirements

Leaving Certificate with passes in five subjects including Mathematics and English or an equivalent qualification. In practice the typical candidate gaining admission will probably have a number of 'Honour' grades.

### Course of Study

The subjects studied are:- Mathematics, Mechanics, Engineering Technology, Physics, Chemistry, Engineering Drawing, Communications and Liberal Studies.

### Examinations and Other Requirements

Students are required to:—

- (a) take College examinations at the end of each session.
- (b) present laboratory notebooks and project work reports to the satisfaction of the college.

### Admission into Professional Engineering Courses

Students who reach the required standard in the College examinations may qualify for admission to the first year of courses B121, B122, B123, B124 without further assessments and are notified of this early in July. They do not have to re-apply through the CAO system.

**Department in Charge**  
**Engineering Technology.**



## BUILDING SERVICES ENGINEERING: DIPLOMA/DEGREE

This is a four year whole-time course which prepares students with suitable aptitude and educational background for a career in Building Services Engineering. It is a broadly based course in the early years, and becomes more specialised in Building Services Engineering in later stages. Project work is a major element in the programme. In the third year a joint project with Architectural and Surveying students is undertaken and in the final year a specialised thesis or design project is required. The course requires a good mathematical and analytical ability. Students are encouraged to obtain suitable summer employment in the industry to complement their studies.

### Eligibility Requirements

The minimum educational qualifications required for entry are the Leaving Certificate in six subjects with Grade C or higher on higher level papers in Mathematics and a suitable Science subject (i.e. Physics, Chemistry, Physics with Chemistry, Applied Mathematics, Construction Studies & Engineering) and a pass in four other subjects which must include English, or an equivalent qualification.

### Course of Study

#### First Year

Mathematics, Mechanics, Materials Science, Physics, Engineering Technology, Engineering Drawing, Communication and Social Studies, Workshop, Laboratory Work, Computing and German.

#### Second Year

Mathematics, Environmental Science, Materials Science, Electrical Engineering, Building Technology, Fluids and Thermodynamics, Building Service Design, Economic and Social Studies, Workshop and Laboratory Work, German and Computing.

#### Third Year

Mathematics and Computing, Environmental Engineering, Control Engineering, Electrotechnology, Lighting and Acoustics, Fluids and Thermodynamics, Building Services Design, Management Studies, Workshop, Laboratory Work and German.

#### Fourth Year

Mathematics and Computing, Environmental Engineering, Building Services Design, Electrical Services, Building Services Plant, Construction Management and Laboratory Work. A major project is also undertaken.

### Awards

Graduates of this course are eligible for the following awards:  
**Diploma in Engineering (Dublin Institute of Technology)**  
**Bachelor of Science (Engineering) (University of Dublin)**

They are eligible for membership of the Institution of Engineers of Ireland and are also accepted for entry to appropriate University post-graduate courses in Ireland and abroad.

### Career Opportunities

The qualification is appropriate to those wishing to make their careers in Building Services Engineering which is concerned with the design and installation of the Mechanical and Electrical Services necessary to ensure the efficient operation of modern buildings. They form part of the team of professionals involved with construction projects and work closely with Architects, Quantity Surveyors and Structural Engineers.

Graduates have good prospects of employment with consulting engineers, design offices, contracting firms, research organisations, as well as state and semi-state agencies and local authorities. Some may pursue post-graduate studies in Ireland or abroad directly after graduating or they may go abroad to work initially and in this way gain wider or specialised experience.

### Department in Charge Engineering Technology

## MECHANICAL ENGINEERING: DIPLOMA/DEGREE

This is a four year wholetime course which prepares students with a suitable aptitude and educational background for a career in Mechanical Engineering. It is a broadly based engineering course over the first two years with specialisation in the third and final years and it requires a good mathematical and analytical ability. Project Work is an important element in the programme and commences in the second year. A major project is undertaken in the final year on which both a thesis and oral presentation are required. Laboratory work is undertaken throughout the course. Students are encouraged to obtain suitable summer employment in engineering to complement their studies.

### Eligibility Requirements

The minimum educational qualifications required for entry are the Leaving Certificate in six subjects with Grade C or higher on higher level papers in Mathematics and a suitable Science subject (i.e. Physics, Chemistry, Physics with Chemistry, Applied Mathe



matics, Construction Studies and Engineering) and a pass in four other subjects which must include English, or an equivalent qualification.

### Course of Study

#### First Year

Mathematics, Mechanics, Materials Science, Physics, Engineering Technology, Engineering Drawing, Communication and Social Studies, Workshop, Laboratory Work, Computing and German.

#### Second Year

Mathematics, Electrical Engineering, Mechanics, Thermodynamics, Fluid Mechanics, Engineering Drawing & Design, Materials Science, Manufacturing Technology, Economics and Social Studies, Workshop, Laboratory Work, Computing and German.

#### Third Year

Mathematics & Computing, Mechanics of Materials, Mechanics of Machines, Control Engineering, Management Studies, Thermodynamics, Fluid Mechanics, Electrotechnology, Engineering Design, Laboratory Work and German.

#### Fourth Year

Mathematics and Computing, Control Engineering, Mechanics of Materials, Mechanics of Machines, Thermodynamics, Fluid Mechanics, Engineering Management and Laboratory Work. A major project is also undertaken.

#### Awards

Graduates of this course are eligible for the following awards:

**Diploma in Engineering (Dublin Institute of Technology)**

**Bachelor of Science (Engineering) (University of Dublin)**

They are eligible for membership of the Institution of Engineers of Ireland and are also accepted for entry to appropriate University post-graduate courses in Ireland and abroad.

#### Career Opportunities

The qualification is appropriate to those wishing to specialise in either general Mechanical or Process Engineering. Mechanical Engineers are likely to be involved with the design and construction of all types of equipment ranging from individual items to complete factories or process plants. They may also be involved with the management of projects and firms and with the maintenance of plant and equipment.

Graduates have a good prospect of employment in general mechanical engineering or processing firms, with state and semi-state bodies, and research organisations. The range of jobs available includes engineering design, maintenance, consulting engineering and plant management. Some also pursue post-graduate studies in Ireland or abroad directly after graduation or they may go abroad to work initially and in this way gain wider or specialised experience.

**Department in Charge**  
**Engineering Technology**

**B123**

**CAO Course**  
**Code: FT04**

### PRODUCTION ENGINEERING: DIPLOMA/DEGREE

This is a four year wholtime course which prepares students with suitable aptitude and educational background for a career in Production Engineering. It is a broadly based engineering course over the first two years with specialisation in the third and final years in Production Engineering. It requires a good mathematical and analytical ability. Project work is an important element in the programme and commences in the second year. A major project is undertaken in the final year in which both thesis and oral presentation are required. Laboratory work is undertaken throughout the course. Students are encouraged to obtain suitable summer employment in engineering to complement their studies.

#### Eligibility Requirements

The minimum educational qualifications required for entry are the Leaving Certificate in six subjects with Grade C or higher on higher level papers in Mathematics and a suitable Science subject (i.e. Physics, Chemistry, Physics with Chemistry, Applied Mathematics, Construction Studies & Engineering) and a pass in four other subjects which must include English, or an equivalent qualification.

### Course of Study

#### First Year

Mathematics, Mechanics, Materials Science, Physics, Engineering Technology, Engineering Drawing, Communications and Social Studies, Workshop, Laboratory Work, Computing and German.

#### Second Year

Mathematics, Electrical Engineering, Mechanics, Thermodynamics, Fluid Mechanics, Engineering Drawing & Design, Materials Science, Manufacturing Technology, Economics and Social Studies, Workshop, Laboratory Work, Computing and German.



### Third Year

Mathematics and Computing, Mechanics of Materials, Mechanics of Machines, Control Engineering, Management Studies, Manufacturing Technology, Materials Science, Industrial Engineering, Product Design, Laboratory Work and German.

### Fourth Year

Mathematics and Computing, Control Engineering, Manufacturing Technology, Mechanics, Materials Science, Production Management, Laboratory Work and a Project.

### Awards

Graduates of this course are eligible for the following awards:

**Diploma in Engineering (Dublin Institute of Technology)**

**Bachelor of Science (Engineering) (University of Dublin)**

They are eligible for membership of the Institution of Engineers of Ireland and are also accepted for entry to appropriate University post-graduate courses in Ireland and abroad.

### Career Opportunities

The qualification is appropriate to those wishing to specialise in either Manufacturing or Production Engineering. Production Engineers are likely to be involved with the manufacture of all types of products ranging from individual items to large batches using robotics and highly automated machines. They may also be involved with the management of projects and industries and with the maintenance of plant and equipment.

Graduates have good prospects of employment in manufacturing firms, with state and semi-state bodies and research organisations. The range of jobs available includes design, industrial engineering, production and factory management. Some also pursue post-graduate studies in Ireland or abroad directly after graduation or they may go abroad to work initially and in this way gain wider or specialised experience.

**Department in Charge**  
**Engineering Technology**

B124

### CAO Course Code FT04

## STRUCTURAL ENGINEERING: DIPLOMA/DEGREE

This is a four year wholetime course which prepares students with a suitable aptitude and educational background for a career in structural engineering. It is a broadly based engineering course in the early years, specialising in structural design in the later stages. Project work is a major element in the programme and in the final year a thesis and oral presentation on a special topic studied are required. The course requires a good mathematical and analytical ability. Students are encouraged to obtain suitable summer employment in the industry to complement their studies.

### Eligibility Requirements

The minimum educational qualifications required for entry are the Leaving Certificate in six subjects with Grade C or higher on higher level papers in Mathematics and a suitable Science subject (i.e. Physics, Chemistry, Physics with Chemistry, Applied Mathematics, Construction Studies and Engineering) and a pass in four other subjects which must include English, or an equivalent qualification.

Students on a  
site visit.





## Course of Study

### First Year

Mathematics, Mechanics, Materials Science, Physics, Engineering Technology, Engineering Drawing, Communications and Social Studies, Workshop, Laboratory Work, Computing and German.

### Second Year

Mathematics, Mechanics, Surveying, Fluid Mechanics, Materials Science, Concrete Technology and Geology, Structural Theory, Construction Studies & Environmental Technology, Economic and Social Studies, Laboratory Work, Computing and German.

### Third Year

Mathematics and Computing, Surveying, Mechanics of Materials, Design of Structures, Theory of Structures, Municipal Engineering, Management Studies, Soil Mechanics, Laboratory Work and German.

### Fourth Year

Mathematics and Computing, Mechanics of Materials, Theory of Structures, Design of Structures, Highway Engineering, Construction Management, Laboratory Work and a Project.

## Awards

Graduates are eligible for the following awards:

**Diploma in Engineering (Dublin Institute of Technology)**

**Bachelor of Science (Engineering) (University of Dublin)**

They are eligible for Membership of the Institution of Engineers of Ireland and are also accepted for entry to appropriate University post-graduate courses in Ireland and abroad.

## Career Opportunities

The qualification is appropriate to those wishing to make their careers in Structural Engineering, which is a specialisation of Civil Engineering. Structural Engineers are concerned with the design and construction of buildings, bridges and special structures. They form part of the team of professionals involved with construction projects and in this way work closely with Architects, Quantity Surveyors and Building Service Engineers.

Graduates have prospects of employment with structural design offices, contractors, research organisations, as well as state and semi-state agencies and local authorities. Some pursue post-graduate studies in Ireland or abroad directly after graduating or they may go abroad to work initially and in this way gain wider or specialised experience.

**Department in Charge**  
**Engineering Technology.**

B126

## CAS Course Code DT126

## CIVIL ENGINEERING TECHNICIAN: CERTIFICATE AND DIPLOMA

This course prepares students for a Technician Certificate award in Civil Engineering at the end of two years and for a Technician Diploma award at the end of a further year of study. The students attend the College from September until the end of May each year and they spend the Summer months gaining practical experience in approved Civil or Structural Engineering design offices, construction sites, etc. The course requires an analytical ability to understand and solve technical problems.

## Eligibility Requirements

### First Year:

Leaving Certificate with passes in five subjects including Mathematics and English, or an equivalent qualification.

### Third Year (Diploma Stage):

Students are expected to reach Credit (Merit) or Distinction level in the Certificate Examination at the end of the second year to qualify for admission to the third year of the course leading to the Diploma award. Students who hold a Pass certificate and at least one year of appropriate post-Certificate experience may also be considered. The Diploma stage is specialised and is focussed on Structural Design.

## Course of Study

### First Year

Mathematics, Engineering Science, Mechanics, Drawing, Building Technology, Surveying, Complementary Studies; Computing and German.

### Second Year (Certificate Stage)

Structural Design and Detailing, Mathematics, Concrete, Geology and Soil Mechanics, Surveying, Construction Services and Supplies, Planning and Administration, Complementary Studies, Laboratory Work, German and Computing.

### Third Year (Diploma Stage)

Theory of Structures, Structural Design, Municipal Engineering, Structural Design (Steel/Concrete), Engineering, Mathematics, Computing, Management Studies and a Project.

## Examination and Other Requirements

- Students take a College examination at the end of each session which is moderated by the National Council for Educational Awards, and the Dublin Institute of Technology.
- They are required to submit reports on their project and laboratory work.



### Awards

Graduates of this course are eligible for the following awards:

- Technician Certificate/Diploma in Civil Engineering (Dublin Institute of Technology)**
- National Certificate/Diploma in Engineering (Civil) (National Council for Educational Awards)**

### Recognition by Professional Bodies

Those who have successfully completed the Certificate Stage of the course meet the academic requirements for Technician status with the Institution of Engineers of Ireland, while those who have completed the Diploma stage meet the Technician Engineer level requirements and can qualify for the non-Corporate Associateship grade of membership after they have completed a suitable period of practical training.

### Career Opportunities

The qualification is appropriate to those wishing to enter engineering as a Technician specialising in Civil Engineering. Civil Engineering Technicians may be involved in the design and construction of buildings, bridges, roads, water supply, sanitary services, etc. They may also be involved in drafting, surveying, laboratory and field work, and the planning and supervision of contracts.

Graduates have prospects of employment in contracting firms, engineering design offices, state and semi-state bodies, and research organisations engaged in Civil Engineering work.

### Department in Charge Engineering Technology

## B127 BUILDING SERVICES ENGINEERING TECHNICIAN: CERTIFICATE AND DIPLOMA

This course prepares students for a Technician Certificate award in Building Services Engineering at the end of two years and for a Technician Diploma award at the end of a further year of study. The students attend College from September until the end of May each year and they spend the Summer months gaining practical experience in heating, ventilation and air conditioning, in consulting engineers' offices and related industry. The course requires an analytical ability to understand and solve technical problems.

### Eligibility Requirements

#### First Year:

Leaving Certificate with passes in five subjects including Mathematics and English, or an equivalent qualification.

#### Third Year (Diploma Stage):

Students are expected to reach Credit (Merit) or Distinction level in the Certificate Examination at the end of the second year to qualify for admission to the third year of the course leading to the Diploma award. Students who hold a Pass Certificate and at least one year of appropriate post-Certificate experience may also be considered.

### Course of Study

#### First Year

Mathematics, Mechanics, Engineering Science, Drawing, Instrumentation and Materials, Construction Technology and Services, Computing, Complementary Studies and German.

#### Second Year

Mathematics, Thermal & Fluid Plant, Electrotechnology and Industrial Instrumentation, Complementary Studies, Environmental Plant Design, Lighting, Acoustics and Water Services, Environmental Engineering, Laboratory Work, a Project, Computing and German.

#### Third Year

Mathematics, Management Studies, Electrotechnology and Controls, Environmental Engineering, Computing, Project Work, Air Conditioning and Refrigeration, Heating and Combustion, Lighting, Acoustics and Water Services.

### Examination and Other Requirements

- Students take a College Examination at the end of each session, which is moderated by the National Council for Educational Awards, and the Dublin Institute of Technology.
- They are required to submit reports on their project and laboratory work.

### Awards

Graduates of this course are eligible for the following awards:

- Technician Certificate/Diploma in Environmental/Building Services Engineering (Dublin Institute of Technology)**
- National Certificate/Diploma in Engineering (Building Services) (National Council for Educational Awards).**



Those who have successfully completed the Certificate stage of this course meet the academic requirements for Technician status with the Institution of Engineers of Ireland, while those who have completed the Diploma Stage are at Technician Engineer level and can qualify for the non-Corporate Associateship grade of membership after they have completed a suitable period of practical training.

### **Career Opportunities**

This qualification is appropriate to those wishing to enter engineering as a technician specialising in Environmental/Building Services Engineering. Environmental/Building Services Engineers are involved with the design and installation of all types of building services such as heating, ventilation, air-conditioning, water and electrical services. They are also involved with the drafting, planning and management of projects and the maintenance of plant and equipment.

Graduates have good prospects of employment with mechanical services contractors and in design offices. The range of jobs available includes engineering design, maintenance engineering, consulting engineering and technical sales.

**Department in Charge**  
**Engineering Technology.**

**B128**

## **MECHANICAL ENGINEERING TECHNICIAN: CERTIFICATE AND DIPLOMA**

**CAS Course  
Code DT128**

This course prepares students for a Technician Certificate award in Mechanical Engineering at the end of two years and for a Technician Diploma award at the end of a further year. The students attend the College for eight months each year commencing in September, and they spend the Summer period getting practical experience in industry, design offices etc. The course requires an analytical ability to understand and solve technical problems.

### **Eligibility Requirements**

#### **First Year:**

Leaving Certificate with passes in five subjects including Mathematics and English, or equivalent qualification.

### **Third Year (Diploma Stage):**

Students are expected to reach Credit (Merit) or Distinction level in the Certificate Examination at the end of the second year to qualify for admission to the third year of the course leading to the Diploma award.

Students who hold a Pass Certificate and at least one year of appropriate post-Certificate experience may also be considered. The Diploma stage is specialised. At present two options are offered — Manufacturing Technology or Process Plant

### **Course of Study**

#### **First Year**

Mathematics, Engineering Science, Drawing Mechanics, Workshop Technology, Instrumentation and Materials, Computing, Complementry Studies and German.

#### **Second Year**

Mathematics, Thermal and Fluid Plant, Electrotechnology and Electronics, Complementary Studies, Mechanics, Design and Materials, Production Technology, Computing, Laboratory Work and German.

#### **Third Year — Common Subjects:**

Mathematics, Electrotechnology and Electronics, Management Studies and Computing.

#### **Manufacturing Option:**

Manufacturing Technology I & II, Manufacturing Management, Manufacturing Design, Mechanics and Project Work.

#### **Process Option:**

Materials Science, Process Plant Technology I & II, Process Plant Design and Management, and Project Work.

### **Examination and Other Requirements**

- Students take a College examination at the end of each session, which is moderated by the National Council for Educational Awards and the Dublin Institute of Technology.
- They are required to submit reports on their project and laboratory work.

### **Awards**

Graduates of this course are eligible for the following awards:

- Technician Certificate/Diploma in Mechanical Engineering** (Dublin Institute of Technology)
- National Certificate/Diploma in Engineering (Process or Manufacturing)** (National Council for Educational Awards).



Those who have successfully completed the Certificate Stage of this course meet the academic requirements for Technician status with the Institution of Engineers of Ireland. Those who have completed the Diploma Stage are at Technician Engineer level and can qualify for the non-Corporate Associateship grade of membership after they have completed a suitable period of practical Training.

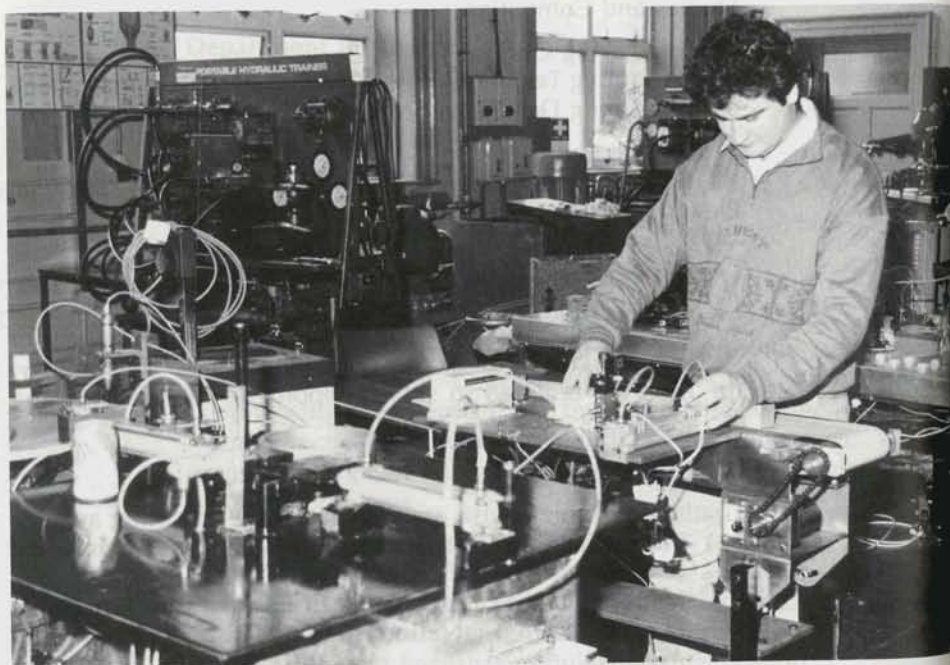
### Career Opportunities

The qualification is appropriate to those wishing to enter Engineering as a Technician specialising in Mechanical Engineering. Mechanical Engineers and Technicians are concerned with the design, manufacture and installation of all types of equipment ranging from individual items to complete factories or process plants. They may also be involved in drafting, detailing planning and management of projects and with plant maintenance.

Graduates have prospects of employment in manufacturing or processing firms, research organisations, as well as state and semi-state agencies.

### Department in Charge Engineering Technology.

At work on a project in one of the College Engineering Laboratories.



### B130 CAS Course Code DT130

### TECHNICIAN CERTIFICATE IN PRINTING/ DIPLOMA IN PRINTING MANAGEMENT

This course is designed to prepare young people for technical/managerial positions in printing and related industries. The course leads to a Certificate award in Printing after two years of study and to a Diploma Award in Printing Management after a further year's study.

### Eligibility Requirements

#### First Year:

Leaving Certificate with passes in five subjects including Mathematics and English, or an equivalent qualification.

#### Diploma Stage (Third Year):

Certificate in Printing with Credit (Merit) or Distinction or a Pass with one year of relevant work experience or an acceptable equivalent qualification.

### Course of Study

The following subjects are included in the Certificate programme:— Design for Printing, Graphic Reproduction, Electronic Composition, Printing Processes, Bookbinding and Print Finishing, Applied Science, Mathematics, Computer Applications, Production Planning, Estimating, Communications, Financial Administration and Business Organisation.

The Minister for  
Science and  
Technology  
Mr. Michael Smith,  
TD, visits the  
School of Printing.





The following subjects are included in the Diploma (third year) programme:—  
Management Accountancy, Marketing, Estimating, Production Planning, Quality Management, Costing, Computer Science, Languages, Management Science.

#### **Awards**

Graduates from this course are eligible for the following awards:

- (a) **Technician Certificate in Printing (Dublin Institute of Technology), National Certificate in Technology (Printing Technology) (National Council for Educational Awards)**
- (b) **Diploma in Printing Management (Dublin Institute of Technology), National Diploma in Business Studies (Printing Management) (National Council for Educational Awards)**

#### **Career Opportunities**

Graduates to date have found positions in printing, packaging, publishing or advertising firms working in the following areas: Estimating, Production Planning, Cost Accountancy, Marketing, Quality Management, Customer Services and Technical Liaison.

#### **Department in Charge**

**Printing and Graphic Communications.**

### **DIPLOMA IN GRAPHIC REPRODUCTION TECHNOLOGY**

This one year course in Graphic Reproduction Technology has been formulated in response to the needs of the graphic industries for creative personnel with experience of the production and finishing processes in the graphic arts.

Students following this Graphic Reproduction Technology course design and process a wide range of items for print production. They are trained in photocomposition, camera and studio work, paste-up and planning, offset printing, screen printing and print finishing, and are expected to use these skills to produce finished products from their own designs. The objectives were formulated in consultation with interested bodies in the graphic communications industries, following an assessment of the requirements for print designers.

#### **Entrance Requirements**

National Certificate in Design of the NCEA with Credit (Merit) or Distinction; or National Certificate in Design of the NCEA with a Pass and one year's relevant working experience; or National Diploma in Design of the NCEA; or equivalent qualifications.

Intending students should apply directly to the College and are required to present a portfolio of recent work.

#### **Course of Study**

Graphic Design, Electronic Composition, Desk Top Publishing, Origination, Planning, Graphic Reproduction, Printing Processes, and Administration.

#### **Award**

Graduates of the course are eligible for the following awards:

- (a) **Diploma in Graphic Reproduction Technology (Dublin Institute of Technology)**
- (b) **National Diploma in Technology (Graphic Design) (National Council for Educational Awards)**

#### **Career Opportunities**

Graduates find suitable employment with advertising agencies, design studios, printing firms and publishing companies. They should also be capable of setting up and running their own studios.

#### **Department in Charge**

**Printing and Graphic Communications.**

**B150**

### **TECHNICIAN CERTIFICATE IN TRANSPORT ENGINEERING/DIPLOMA IN MOTOR INDUSTRY MANAGEMENT**

**CAS Course  
Code DT150**

This whole-time course prepares students for entry into the many and varied responsible positions in the Motor Industry. The course leads to the award of a Transport Engineering Technician Certificate at the end of two years study and to the award of the Diploma in Motor Industry Management at the end of a further year's study.

#### **Eligibility Requirements**

Leaving Certificate with passes in five subjects, including Mathematics and English, or an equivalent qualification.

#### **Course of Study**

##### **First Year**

Mathematics, Automobile Engineering, Electricity/Electronics, Heat Engines, Applied Mechanics, Workshop Technology, Engineering Drawing, Complementary and Management Studies and Computer Studies.

##### **Second Year**

Mathematics, Automobile Engineering, Automobile Electricity/Electronics, Engineering Science, Heat Engines, Applied Mechanics, Workshop Technology, Engineering Drawing, Computer Studies, Complementary and Management Studies.



### Third Year

Mathematics, Automobile Engineering, Transport Studies, Motor Industry Management, Motor Industry Law, Motor Industry Administration and Organisation, Communications and Industrial Sociology, Management Project, Computer Studies, Financial and Commercial Aspects.

### Examination and Other Requirements

Progress to successive years of the course will be on the basis of the students's work during the session, and success in the College sessional examinations. Only students who successfully complete the Certificate stage and who display an aptitude for management will be accepted for the Diploma Stage. A requirement of the course is that students spend 2-3 months each Summer Vacation in suitable employment in the Motor Industry gaining appropriate experience. Where students are unable to arrange this employment, the Institute of the Motor Industry, the College Authorities and the Student Society of Motor Industry Management may assist in their placement.

### Awards

Graduates of the course are eligible for the following awards:

**Technician Certificate in Transport Engineering (Dublin Institute of Technology)**

**Diploma in Motor Industry Management (Dublin Institute of Technology).**

Graduates holding the Diploma are eligible for full exemptions from the Certificate of Management examination requirement of the Institute of Motor Industry and for subject exemptions from the examinations of the Institute of Road Transport Engineers.

### Career Opportunities

There are many and varied career opportunities in the automobile and transport industries for those completing these courses including the following: Vehicle Body Repair Supervisor, Garage Service Department Supervisor, Reception Engineer, Vehicle Salesperson, Training Advisor, Vehicle Finance Company Representative etc. Generally they progress to more senior management position in the Retail Motor Industry or Transport Industry.

**Department in Charge**  
**Transport Engineering**

B171

**CAS Course**  
**Code DT171**

## BUILDINGS MAINTENANCE TECHNICIAN CERTIFICATE COURSE

This two-year wholetime course has been developed to prepare students for a Technician Certificate award in Buildings Maintenance. The programme extends over the full academic session from September to June. The course has a good balance between theoretical and practical aspects and participants are given an appreciation of a range of construction skills. Students are encouraged to spend the summer vacation gaining practical work experience in the areas of Buildings Maintenance and Inspection, Building Supplies, Technical Sales and related activities.

### Eligibility Requirements

Leaving Certificate with passes in five subjects including Mathematics and English or an equivalent qualification.

### Course of Study

#### First Year

Construction Technology I, Building Science I, Building Evaluation and Inspection, Construction Drawing, Building Services, Mathematics, Computer Studies, Quantities and Estimating, Complementary Studies, and Construction and Maintenance Skills.

#### Second Year

Construction Technology II, Building Science II, Quantities and Estimating, Building Services, Mathematics, Computer Studies, Land Surveying, Communications and Business Administration, and Construction and Maintenance Skills.

### Awards

Students who successfully complete the course are eligible for the following awards:

- (a) **Buildings Maintenance Technician Certificate (Dublin Institute of Technology).**
- (b) **National Certificate in Construction Studies (Buildings Maintenance) (National Council for Educational Awards).**

### Career Opportunities

The Buildings Maintenance Technician may find employment in a variety of areas such as Buildings Maintenance, Maintenance Contract Administration, Building Inspection, Building Supplies and DIY Sales, Technical Sales, Trainee Estimating, Purchasing Officer etc.

There may also be opportunities in these areas for self employment.

**Department in Charge**  
**Construction Trades.**





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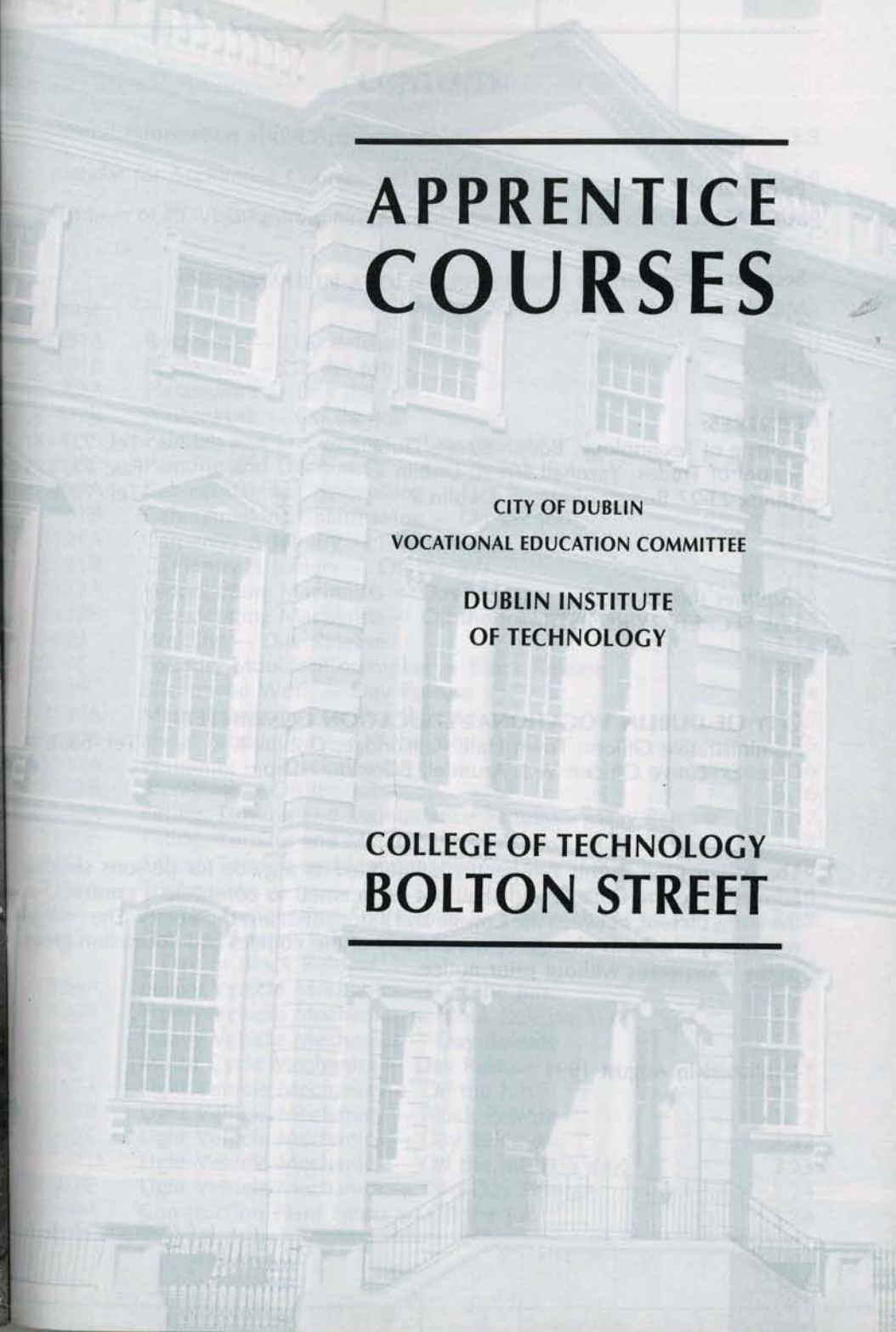
# APPRENTICE COURSES

CITY OF DUBLIN  
VOCATIONAL EDUCATION COMMITTEE

DUBLIN INSTITUTE  
OF TECHNOLOGY

COLLEGE OF TECHNOLOGY  
**BOLTON STREET**

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### Principal of College

MICHAEL O'DONNELL, BE, BComm, MEconSc, Eurlng, CEng, FIEI

### Secretary/Registrar

MICHAEL J. MARNANE, BComm, DPA, MACRA

### CENTRES:

College of Technology, Bolton Street, Dublin 1.  
School of Trades, Yarnhall Street, Dublin 1.  
Annex 23-27 Beresford Street, Dublin 7

Tel: 727177  
Fax: 727879  
Tel: 727157

*Enquiries should be directed to:*  
THE SECRETARY/REGISTRAR.

### CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE:

Administrative Offices: Town Hall, Ballsbridge, Dublin 4.  
Chief Executive Officer: W.J. Arundel, BComm, HDip.

Tel: 680614

The information in this Prospectus is intended as a guide for persons seeking admission to the College and shall not be deemed to constitute a contract, or the terms thereof, between the College and a student or any third party. The college reserves the right to change or modify any of the courses or information given in the Prospectus without prior notice.

Published in August 1991

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## INFORMATION ABOUT APPRENTICESHIP

### Introduction

The College has had a major involvement and commitment to apprenticeship education and training since it was opened in 1911 and over the years it has played an important role in its development. In the 1990/91 session a total of more than 3300 apprentices were enrolled in the College pursuing one of 20 different trades in the Construction, Engineering or Printing designations.

The following College Departments are involved in the provision of apprenticeship courses:

- Building Trades
- Metal Fabrication and Plumbing
- Engineering Trades
- Transport Engineering
- Printing and Graphic Communication

The overall apprenticeship activities in the different Colleges of Dublin Institute of Technology (DIT) are co-ordinated and monitored by an Apprenticeship Education Board which reports directly to the DIT Governing Body. This Board is chaired by Mr. Matt Farrell, Vice Principal of the College, and the other members include the Heads of Schools and Departments involved in the apprenticeship area in the different DIT Colleges as well as some elected or co-opted teaching staff members.

Amongst the highlights in the calendar of the apprenticeship area each year are the National Apprenticeship Competitions. Normally the College hosts some ten finals annually for different trade specialisations on behalf of the Department of Education and the candidates are likely to include representatives from RTCs and other centres as well as from this College. The overall winner is eligible to receive a silver medal as well as special consideration for selection for the national team which represents Ireland in the international Youth Skills Olympics. These prestigious competitions are normally held every second year in different parts of the world and Irish apprentices have performed very well in them to date showing that the standards of craftsmanship of the skilled young Irish workforce compare favourably with those in the more advanced industrial countries.

### Role of FAS

FAS, the National Training and Employment Authority, has been given special statutory responsibility by the Minister for Labour for monitoring and co-ordinating different aspects of apprenticeship. It operates a number of training centres which provide opportunities for 'off the job' training during the first year of apprenticeship and also makes arrangements with other training centres to provide similar facilities for selected apprentices during their first year. Part of the 'off the job' training programme involves attendance at a College. In the second and subsequent years of apprenticeship FAS monitor the training arrangements in industry and the release to attend colleges for educational and other aspects.

In 1989 FAS undertook a review of the existing apprenticeship arrangements and published a discussion document following extensive consultation with the different interests. This proposed a standards based apprenticeship system



culminating in the National Craft Certificate for those who pass the stipulated tests and envisaged that in future full craft status would only be afforded to those holding this Certificate.

### How to become an Apprentice

Those interested in becoming an apprentice should first check that they have the stipulated basic minimum educational qualifications at Group or Intermediate Certificate levels. They should then seek out a suitable employer having a vacancy for an apprentice in the trade chosen. While the responsibility for securing an apprenticeship rests with the individual or with his/her parents FAS may be able to assist and those interested should register at the nearest FAS office where further useful information may also be available.

### College Courses for Apprentices

College courses for Apprentices are conducted on a Day-release or Block-release basis during which the apprentices are released from their employment on full pay. The courses are designed to cover the requirements of the Junior and Senior Trade Certificate examinations of the Department of Education and corresponding examinations of the City & Guilds of London Institute. The subjects covered on these courses include the relevant trade theory and practice, together with Science, Mathematics, Communications and Social Studies.

For those engaged in the Engineering or Construction industry, the preparation for the Junior Trade Certificate examination may be pursued in two ways:

- (i) Apprentices undergoing 'off-job' training in an approved training centre during the first year of their apprenticeship, are released to attend Day-release or Block-release courses in the College during that period. The skill training course and the terminal test conducted by the Training Centre meets the requirements for the practical element of the Junior Trade Certificate examination and the College course prepares the students to take the remaining subjects of the examination.
- (ii) Those apprentices who do not pursue 'off-job' training in a training centre are normally released from their employment to attend Day-release or Block release courses conducted by a College over a two-year period to prepare them for all elements of the Junior Trade Certificate examination.

Both categories of apprentices pursue a further two-year Day release or Block-release course of preparation for all elements of the Senior Trade Certificate examination of the Department of Education. The Senior course is conducted entirely at the College and the apprentices are released from their employment to enable them to attend.

For those apprentices employed in the Printing industry the College provides courses of education and training on a Block-release basis during their first three years of apprenticeship. The first year course of 23 weeks duration commences in January each year and the second and third year courses, each of 8 weeks duration, are conducted between September and December each year. Printing students sit for the Junior Trade Certificate examination at the end of the first year course and the Senior Trade Certificate examination at the end of the third year course.

Special evening courses may be conducted to assist those who wish to re-sit elements of the Senior examination in which they were unsuccessful.

### Ladders to Higher Levels for Apprentices

Post-apprenticeship courses are provided by the college where a demand for these courses exists and thus opportunities are made available for students who are successful in the Senior Trade Certificate Examination to proceed to higher level studies. These include a number of craft-based technician courses which are specially designed for those with craft backgrounds. Details of these courses are provided in the College Prospectus or are available on request.

Students holding the Senior Trade Certificate of the Department of Education with one endorsement in mathematics or a science subject satisfy the minimum entrance requirements for courses in the DIT Colleges which specify a pass in five subjects in the Leaving Certificate Examination as the entrance requirement.

Students holding this Certificate with three endorsements in academic subjects are eligible for consideration for entry into related professional degree level courses provided that they also meet any special entry requirements (e.g. Higher Level Mathematics for Engineering courses). Where endorsement subjects are not offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education or an equivalent qualification may be acceptable.

### Admission Requirements

Trade courses are provided for the sole purpose of supplementing the practical trade training of persons actually employed at and engaged in the various



President Robinson visits the College for the National Apprentice Competition.



operations of the trade. The college realises that it is impossible for a person to learn a trade solely by attendance at these courses and is further of the opinion that the admission of persons not actually engaged in the trades would be not only of little benefit to them but might prejudicially affect the instruction of those for whom the courses have been organised.

Accordingly the College reserves the right to restrict enrolment in the trade practical courses to those persons who are actually employed in the several processes and operations of the trade. For admission to these courses proof of actual employment in the trade may be required as well as certificates to that effect from the employer, the official Trade Union for the trade concerned or FAS. Employers are kept informed during the session of absences or lateness on the part of their apprentices. In addition, an end of session report on attendance and progress is issued to the students and employers. Apprentices and employers are asked to note particularly that details of the employment and the attendance of all apprentices enrolled in release courses will be made available to FAS — the National Training and Employment Authority — whether or not the apprentices are registered with that body.

#### **National Craft Certificate (NCC)**

The National Craft Certificate is awarded jointly by the Department of Education and FAS. It attests to the successful completion of the apprenticeship programme and may be a required qualification for Irish craftspersons who wish to find work at home or in other countries. It is also likely to become a compulsory requirement in the future for recognition as a craftsperson in Ireland.

#### **Requirements for the Award of NCC**

To qualify for the award of a National Craft Certificate applicants must provide proof that they have:

- (a) been registered with FAS (formerly AnCO).
- (b) served the full period of apprenticeship
- (c) completed the first year 'off-the-job' training course (may be waived in certain circumstances)
- (d) attended the full educational release programme
- (e) achieved a pass grade in the following:
  - (i) First year assessment programme and terminal test (may be waived in certain circumstances)
  - (ii) Department of Education Junior Trade Written Examination.
  - (iii) Department of Education Senior Trade Certificate.

#### **Application Procedure for NCC**

Application forms and all necessary information can be obtained from:

Apprenticeship Services  
N.C.C. Administration Section  
FAS — The Training and Employment Authority  
P.O. Box 456, 27-33 Upper Baginbun St., Dublin 4.  
Telephone: (01)-685777

## **CALENDAR FOR APPRENTICE COURSES 1991-92**

### **Engineering Block Release**

Block 1

Monday, 30th September, 1991-Friday, 13th December, 1991

Block 2

Tuesday, 7th January, 1992-Friday, 20th March, 1992

Block 3

Monday, 23rd March, 1992-Friday, 10th April, 1992

and

Monday, 27th April, 1992-Friday, 19th June, 1992

### **Printing Block Release**

Block 1

Tuesday, 3rd September, 1991-Friday, 25th October, 1991

Block 2

Wednesday, 30th October, 1991-Friday, 20th December, 1991

Block 3

Tuesday, 7th January, 1992-Friday, 19th June, 1992

### **Engineering and Construction Day Release**

Monday, 9th September, 1991-Friday, 13th December, 1991.

Tuesday, 7th January, 1992-Friday, 10th April, 1992

Monday, 27th April, 1992-Friday, 12th June, 1992.

### **Members of CDVEC Apprentice Education Board**

Mr. M.P. Farrell CEng MIEE MIEI (Chairman)

Mr. J. Bernie IEng. MIMechE

Mr. J. Erraught MCFA LCG MIHCI

Mr. R. Eustace BSc (MechE)

Mr. P. Kelly FTC HTC

Mr. B. Kennedy BA FTC (C&G) MIOP LCG

Mr. D. O'Brien NB Dip FTC (CGLI)

Mr. T. O'Connor BA

Mr. J. O'Donnell BA HDipEd IEng(EC) MIESECIE

Mr. P. O'Neill

Mr. D. Tuite IEng MIMI MIRTE SIMI

Mr. A. Whelan



## BUILDING TRADES COURSES

D101A

### BRICKWORK: Day Release

This course requires attendance on one day and one night a week for the First and Second Year and one day per week thereafter. The course is designed to prepare students to take Junior and Senior Trade Certificate Examinations (Practical and Written) of the Department of Education and the City & Guilds of London Institute Craft Certificate Examinations.

#### Entrance Requirements

Apprenticeship to the trade.

D101B

### BRICKWORK: Off-the-job

This course meets the requirements of apprentices who are attending full-time for one year at a FÁS Training Centre. Students attend the College on one day and one evening per week during this one year course. The course is designed to prepare students to take the Junior Trade Certificate Examination of the Department of Education.

#### Entrance Requirements

Enrolment as an apprentice in an approved Training Centre.

D102A

### PLASTERWORK: Day Release

This course requires attendance on one day and one evening per week for the First and Second Year and one day only per week thereafter. The course is designed to prepare students to take the Junior and Senior Trade Certificate Examinations (Practical and Written) of the Department of Education and the City & Guilds of London Institute Craft Certificate Examinations.

#### Entrance Requirements

Apprenticeship to the trade.

D102B

### PLASTERWORK: Off-the-job

This course meets the requirements of apprentices who are attending full-time for one year at a FÁS Training Centre. Students attend the College on one day and one evening per week during this one year course. The course is designed to prepare students to take the Junior Trade Certificate Examination of the Department of Education.

#### Entrance Requirements

Enrolment as an apprentice in an approved Training Centre.

D105A

### PAINTING AND DECORATING: Day Release

This course requires attendance on one day and one evening per week for the first and second year and one day per week thereafter. The course is designed to prepare students to take the Junior and Senior Trade Certificate examinations (Practical and Written) of the Department of Education and the City & Guilds of London Institute Craft Certificate Examinations.

#### Entrance Requirements

Apprenticeship to the trade.

D105B

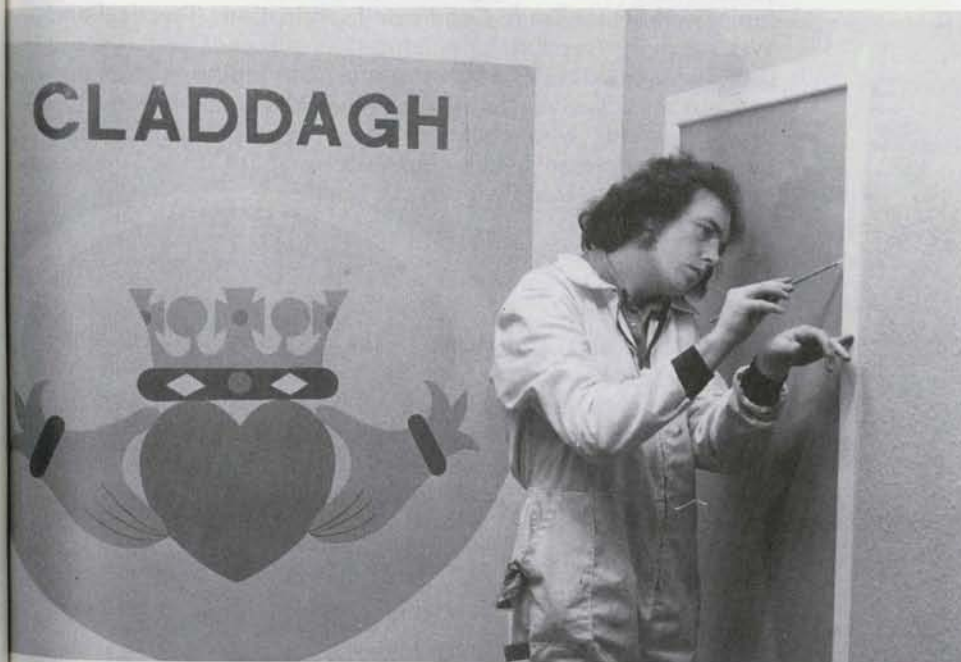
### PAINTING AND DECORATING: Off-the-job

This course meets the requirements of apprentices who are attending full-time for one year at a FÁS Training Centre. Students attend the College on one day and one evening per week during this one year course. The course is designed to prepare students to take the Junior Trade Certificate Examination of the Department of Education.

#### Entrance Requirements

Enrolment as an apprentice in an approved Training Centre.

Painting and  
Decorating





**D111A****CABINETMAKING/CHAIRMAKING: Day Release**

This course requires attendance on one day and one evening per week for the First and Second Year and one day per week thereafter. The course is designed to prepare students to take the Junior and Senior Trade Certificate Examinations (Practical and Written) of the Department of Education.

**Entrance Requirements**

Apprenticeship to the trade.

**D111B****CABINETMAKING/CHAIRMAKING: Off-the-job**

This course meets the requirements of the apprentices who are attending full-time for one year at a FAS Training Centre. Students attend the College on one day and one evening per week during this one year course. The course is designed to prepare students to take the Junior Trade Certificate Examination of the Department of Education.

**Entrance Requirements**

Enrolment as an apprentice in an approved Training Centre.

**D121A****CARPENTRY AND JOINERY: Day Release**

This course requires attendance on one day per week for four years. The course is designed to prepare students to take the Junior and Senior Trade Certificate Examinations (Practical and Written) of the Department of Education with endorsements and the City & Guilds of London Institute. The Junior examination is taken after two years and the Senior examination after four years. Students who complete the course satisfactorily can proceed to more advanced courses leading to City & Guilds of London Institute Examinations.

**Entrance Requirements**

Apprenticeship to the trade.

**D121B****CARPENTRY AND JOINERY: Off-the job**

This course is designed to meet the requirements of apprentices who are attending a Training Centre on a full-time basis during their first year. They are released to attend the College on one day per week during this period and the course prepares them to take the Junior Trade Certificate Examination of the Department of Education.

**Entrance Requirements**

Enrolment as a Carpentry and Joinery apprentice in an approved Training Centre.

**D122A****WOODCUTTING MACHINIST: Day Release**

This course requires attendance on one day per week for four years. The course is designed to prepare students to take the Junior and Senior Trade Certificate Examinations (Practical and Written) of the Department of Education with endorsements and the City & Guilds of London Institute. The Junior examination is taken after two years and the Senior examination after four years. Students who complete the course satisfactorily can proceed to more advanced courses leading to City & Guilds of London Institute Examinations.

**Entrance Requirements**

Apprenticeship to the Trade.

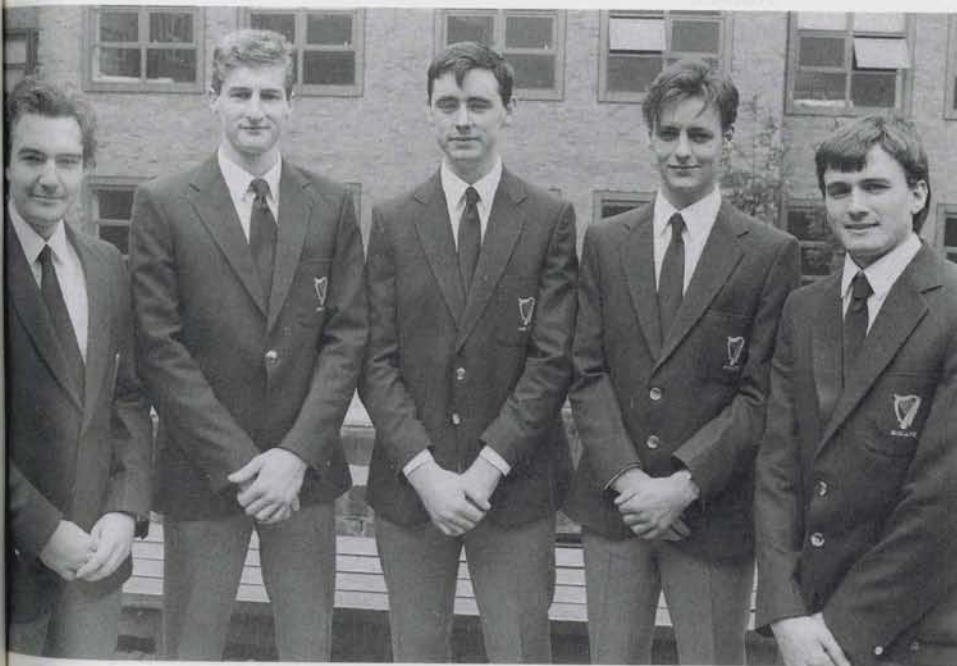
**D122B****WOODCUTTING MACHINIST: Off-the-job**

This course is designed to meet the requirements of apprentices who are attending a Training Centre on a full-time basis during their first year. They are released to attend the College on one day per week during this period and the course prepares them to take the Junior Trade Certificate Examination of the Department of Education.

**Entrance Requirements**

Enrolment as a Woodcutting Machinist apprentice in an approved Training Centre.

*Apprentice students of the College who represented Ireland at the International Youth Skills Olympics held in Amsterdam in June 1991*





## METAL FABRICATION AND PLUMBING TRADES COURSES

D123

### **WELDING: Day Release**

This course requires attendance on one day and one evening per week over four years. The course is designed to prepare students to take the Junior and Senior Trade Certificate Examinations after two years and the Senior Stage examination after four years. Students who complete the course satisfactorily may proceed to the craft-based Technician Course in Metal Fabrication and Welding.

#### **Entrance Requirements**

Employment as a welding apprentice.

D125

### **FOUNDRY MOULDER/COREMAKER: Block Release**

This course is conducted at intervals to meet the needs of the Foundry Industry. Students are nominated by their employers or are sponsored by FÁS. The course is based on the syllabus for foundry craft studies of the City & Guilds of London Institute and normally entails attending four Block Release courses, each of 11 weeks duration spread over a 4 year cycle.

The course involves both practical and theoretical training in Safe Working Practice, Materials, Methods, Equipment and Related Studies.

In cases where students are employed in foundries outside the Dublin area, a one year off-the-job course may be provided entailing full-time attendance for one year and Block Release attendance for a further two years.

#### **Entrance Requirements**

Employed as an apprentice in the Foundry Industry.

D129

### **SHEET METALWORK: Day Release**

This course requires attendance on one day and one evening per week over four years. The course is designed to allow students to take the Junior and Senior Trade Certificate Examinations (Practical and Written) of the Department of Education with endorsements and the City & Guilds of London Institute. Generally, students take the Junior Stage Examination after two years and the Senior Stage Examination after four years. Students completing the course in a satisfactory manner can proceed to the craft-based Technician Certificate Course in Metal Fabrication and Welding.

#### **Entrance Requirements**

Employment as a Sheet Metalwork apprentice.

D130A

### **METAL FABRICATION: Day Release**

This course requires attendance on one day and one evening per week over four years. The course is designed to allow students to take the Junior and Senior Trade Certificate Examinations (Practical and Written) of the Department of Education with endorsements and the City & Guilds of London Institute. Generally, students take the Junior Stage Examination after two years and the Senior Stage Examination after four years. Students completing the course in a satisfactory manner can proceed to the craft-based Technician Certificate Course in Metal Fabrication and Welding.

#### **Entrance Requirements**

Employment as a Metal Fabrication apprentice.

D130B

### **METAL FABRICATION: Off-the-job**

This course meets the requirements of first year apprentices undergoing off-the-job training in a training centre. The apprentices attend the College on 1½ days each week for classes in Trade Technology, Mathematics, Science, Drawing and General Studies. On completion of the course, students are expected to sit the Junior Trade Certificate Examination (Written and Practical) of the Department of Education with endorsements.

#### **Entrance Requirements**

Enrolment as an apprentice to an approved Training Centre.

Mr. Sam Nolan of UCATT presenting his Union's prize at the Annual Prizegiving in the School of Construction Trades.





**PLUMBING: Day Release**

This course requires attendance on one day per week over four years. The course is designed to allow students to take the Junior and Senior Trade Certificate Examinations (Practical and Written) of the Department of Education with endorsements. The Junior Examination is taken after two years and the Senior Examination after four years. Students who complete the course satisfactorily can proceed to more advanced courses leading to the craft-based Technician Certificate Course in Plumbing.

**Entrance Requirements**

Employment as a Plumbing Apprentice.

**PLUMBING: Off-the-job**

This course meets the requirement of first year apprentices undergoing off-the-job training in a Training Centre. The apprentices attend the College on one day per week for classes in Trade Technology, Mathematics, Science, Drawing and General Studies. On completion of the course, students are expected to sit the Junior Trade Certificate Examination (Written and Practical) of the Department of Education with endorsements.

**Entrance Requirements**

Enrolment as an apprentice to an approved Training Centre.

**ENGINEERING TRADES COURSES****FITTING, TURNING & MAINTENANCE SYSTEMS: Day Release****Objective**

Department of Education Junior & Senior Trade Certificates with endorsements and City & Guilds Certificate in Engineering Systems Maintenance competences.

**Duration of Course**

Four years of day release (1 day and 1 evening per week).

**Subjects**

Workshop Practice, Workshop Technology, Mathematics and Craft Calculations, Technical Drawing, Engineering Science and General Studies.

**Entrance Qualifications**

Apprenticeship to the Trade.

NOTE: The City & Guilds Certificate in Engineering Systems Maintenance Competences classes are available in the evenings.

**FITTING/TURNING & MAINTENANCE SYSTEMS: Off-the-job**

This course is designed for Fitter/Turner and Maintenance Fitter Apprentices attending off-the-job courses in Training Centres.

**Objective**

Department of Education Junior Trade Certificate with endorsements, and City & Guilds Certificates in Engineering Systems Maintenance Competences.

**Duration of Course**

One year release (1½ days and 1 or 2 evenings each week, or one week in three over the session). Release in years 2 & 3 from industry is on a Day or Block Release basis.

**Subjects**

Workshop Practice, Maintenance Practices and Technology, Hydraulics and/or Pneumatics, Electrical Systems, Power Transmission Systems, Technical Drawing, Maths & Craft Calculations, Engineering Science, Computing and C.N.C. and General Studies (Maintenance Modules, subject to change).

**Entrance Qualifications**

Enrolment as an apprentice in an approved Training Centre.



### FITTING/TURNING AND MAINTENANCE SYSTEMS: Block Release

This Course is designed for Fitters/Turners and General Maintenance Fitters.

#### Objective

Department of Education Junior and Senior Trade Certificates in Fitting and Turning with endorsement and City & Guilds Certificate in Engineering Systems Maintenance Competences.

#### Duration of Course

Four years of Block Release (11 weeks each year).

#### Subjects

Workshop Practice, Maintenance Practice & Technology, Hydraulics and/or Pneumatics, Electrical Systems, Power Transmission Systems, Technical Drawing, Maths & Craft Calculations, Engineering Science, Computing and CNC and General Studies (Maintenance Modules, subject to change).

#### Entrance Qualifications

Apprenticeship to the Trade.

### TOOLMAKING

This course caters for Toolmaking apprentices.

#### Objective

Department of Education Junior and Senior Trade Certificates with endorsements, and modules of City and Guilds Computer-Aided Engineering Course.

#### Duration of Course

First year release from Training Centres for Department of Education Junior Stage Examinations with endorsements and City & Guilds Computer-Aided Engineering Stage I — followed by two years of day release from industry (1 day and 1 or 2 evenings each week) for Department of Education Senior Stage Examinations with endorsements, and City & Guilds Computer-Aided Engineering Stage II with an option for Stage III.

#### Subjects

Workshop Practice, Workshop Technology, Mathematics & Craft Calculations, Technical Drawing, General Studies, Engineering Science and Computer Aided Engineering.

#### Entrance Qualifications

Apprenticeship to the Trade.

## TRANSPORT ENGINEERING TRADES COURSES

### AIRCRAFT ENGINEERING APPRENTICES COURSE: Sandwich

This two year sandwich course aims to train apprentices already employed in the Aeronautical Engineering Industry as Aircraft technicians capable of achieving the ICAO Maintenance Engineers' Licence issued by the Department of Tourism & Transport. Students attend the College on a full-time basis from September to June and spend the remainder of the year working in the Aircraft industry.

#### Entrance Requirements

- Department of Education Intermediate or Day Group Certificate in suitable subjects; and
- Employment as an apprentice in an Aeronautical Engineering environment.

#### Course of Study

Aeronautical Engineering, Mathematics, Computer Studies, Mechanics, Engineering Drawing, Heat Engines, Workshop Technology, Workshop Practice, French, Social and General Studies, Physical Education.

*Mr. Garreth O'Donnell after receiving two City and Guilds first place medals in the Mechanical Technicians course with Mr. Jim Strain of City and Guilds and Mr Alan Kelly of Fry Cadbury's (his employers). Mr. O'Donnell is now pursuing the degree course in Mechanical Engineering*





### **Examinations and Other Requirements**

Students are required to pass Examinations as follows:

- (a) At the end of the year — the Department of Education Junior Trade Certificates and Elementary Technological Examinations in Mechanical Engineering; and City and Guilds of London Institute Aeronautical Engineering Competence Part I Certificate.
- (b) At the end of the second year — The Department of Education Senior Trades, and City and Guilds of London Institute Aeronautical Engineering Occupational Competences Part II Certificate and Aeronautical Engineering Technician's Certificate Part I.

### **Department in Charge**

Transport Engineering.

**D155**

### **GENERAL AIRCRAFT ENGINEERING APPRENTICES COURSE — DAY OR BLOCK RELEASE**

#### **Objective**

This is a block or equivalent day release course to prepare Aircraft apprentices for the Department of Tourism & Transport Aeronautical Engineering Certificates, Parts 1, 2, 3 and 4, City & Guilds Aeronautical Craft Studies Certificate or appropriate Trade Certificate of the Department of Education.

#### **Duration of Course**

Block release or equivalent day release over 3 years.

#### **Department in Charge**

Transport Engineering.

**D164A**

### **HEAVY VEHICLE MECHANICS: Off-the-job**

#### **Objective:**

Department of Education Junior Trade Certificate including endorsement subjects and the City & Guilds of London Institute Craft Certificate 381 Part I.

#### **Duration of Course**

One year of 36 weeks.

#### **Attendance**

One week (35 hours) in every three weeks for first year.

#### **Subjects**

Heavy Vehicle Technology, Mathematics, Electricity, Electronics, Engineering Science, Technical Drawing, General Studies.

#### **Entrance Qualifications**

Enrolment as an apprentice in an approved Training Centre.

**D164B**

### **HEAVY VEHICLE MECHANICS: Block Release**

#### **Objective**

Department of Education Junior and Senior Trade Certificates plus endorsement subjects.

#### **Duration of Course**

Block release for 11 weeks each year (32½ hours per week) over four years.

#### **Subjects**

Heavy Vehicle Technology, Heavy Vehicle Electricity, Electronics, Engineering Science, Mathematics, Technical Drawing, Garage and Workshop Practice, General Studies.

#### **Entrance Qualifications**

Apprenticeship to the Trade.

**D164C**

### **HEAVY VEHICLE MECHANIC: Day Release**

#### **Objective**

Department of Education Junior and Senior Trade Certificates with endorsement subjects and the City & Guilds of London Craft Certificate 381 Part 1.

#### **Duration of Course**

Four years of 38 weeks each year.

#### **Attendance**

One day (7 hours) and two evenings (6 hours) each week.

#### **Subjects**

Heavy Vehicle Technology, Heavy Vehicle Electricity, Electronics, Engineering Science, Mathematics, Technical Drawing, Garage and Workshop Practice, General Studies.

#### **Entrance Qualifications**

Apprenticeship to Trade.

**D165**

### **MOTOR CYCLE MECHANICS**

#### **Objective**

The City & Guilds of London Institute Craft Certificate 389.

#### **Duration of Course**

Two years of 38 weeks each year.

#### **Attendance**

One day (7 hours) and two evenings (6 hours) each week.

#### **Subjects**

Motor Cycle Technology, Electricity, Electronics, Engineering Science, Mathematics, Technical Drawing, Workshop Practice, General Studies.

#### **Entrance Qualifications**

Day Vocational Group Certificate or Intermediate Certificate.



**LIGHT VEHICLE MECHANICS: Off-the-job****Objective**

Department of Education Junior Trade Certificate with endorsement subjects.

**Duration of Course**

One year over 36 weeks.

**Attendance**

One week (35 hours) every 3 weeks for first year. One day (7 hours) and two evenings (6 hours) each successive year.

**Subjects**

Motor Vehicle Technology, Motor Vehicle Electricity/Electronics, Engineering Science, Mathematics, Technical Drawing, General Studies.

**Entrance Qualifications**

Enrolment as an apprentice in an approved Training Centre

**LIGHT VEHICLE MECHANICS: Block Release****Objective**

Department of Education Junior and Senior Trade Certificates plus endorsement subjects.

**Duration of Course**

Block Release for 11 weeks during each year of apprenticeship with attendance at College for 35 hours each week.

**Subjects**

Garage Practice, Motor Workshop Practice, Motor Vehicle Theory, Motor Vehicle Science and Electricity/Electronics, Mathematics and Craft Calculations, Technical Drawing, General Studies.

**Entrance Qualifications**

Apprenticeship to the Trade.

**LIGHT VEHICLE MECHANICS: Day Release****Objective**

Department of Education Junior and Senior Trade Certificates plus endorsement subjects and the City and Guilds of London Craft Certificate.

**Duration of Course**

4 years of 38 weeks each year.

**Attendance**

1 day (7 hours) and 2 evenings (6 hours) each week.

**Subjects**

Motor Vehicle Technology, Motor Vehicle Electricity/Electronics, Engineering Science, Mathematics, Technical Drawing, Workshop Practice, Garage Practice, General Studies.

**Entrance Qualifications**

Apprenticeship to the Trade.

**LIGHT VEHICLE MECHANICS: Off-the job (One and a half Day Release)****Objective**

Department of Education Junior Trade Certificate with endorsement subjects:

**Duration of Course**

One year over 38 weeks.

**Attendance**

One and a Half Days (10 hours) and one Evening (3 hours) each week.

**Subjects**

Motor Vehicle Technology, Motor Vehicle Electricity/Electronics, Engineering Science, Mathematics, Technical Drawing, General Studies.

**Entrance Qualifications**

Enrolment as an apprentice in an approved Training Centre.

*Programming a  
computer controlled  
milling machine.*





D167E

### **LIGHT VEHICLE MECHANICS: Two Day Release**

#### **Objective**

Department of Education Senior Trade Certificate with endorsement subjects.

#### **Duration of Course**

Two years of 38 weeks.

#### **Attendance**

Two days (14 hours) each week.

#### **Subjects**

Motor Vehicle Technology, Motor Vehicle Electricity/Electronics, Engineering Science, Mathematics, Technical Drawing, Workshop Practice, Garage Practice, General Studies.

#### **Entrance Qualifications**

Department of Education Junior Trade Certificate.

D168A

### **CONSTRUCTION PLANT FITTERS COURSE: Off-the-job**

#### **Objective**

The City & Guilds of London Institute 620, Part I.

#### **Duration of Course**

One year over 36 weeks.

#### **Attendance**

One week (35 hours) every 3 weeks.

#### **Subjects**

Plant Technology, Plant Vehicle Electricity/Electronics, Engineering Science, Mathematics, Technical Drawing, General Studies.

#### **Entrance Qualifications**

Enrolment as an apprentice in an approved Training Centre.

D168B

### **CONSTRUCTION PLANT FITTERS: Block Release**

#### **Objective**

The City and Guilds of London Institute 620, Parts I and II.

#### **Duration of Course**

Block Release Course of 11 weeks during each year of apprenticeship with attendance at College for 35 hours each week.

#### **Subjects**

Plant Technology, Plant Vehicle Electricity, Engineering Science, Mathematics, Technical Drawing, Garage and Workshop Practice, General Studies.

#### **Entrance Qualifications**

Apprenticeship to the Trade.

D168C

### **CONSTRUCTION PLANT FITTERS COURSE: Day Release**

#### **Objective**

The City and Guilds of London Institute 620, Parts I and II.

#### **Duration of Course**

4 years of 38 weeks each year

#### **Attendance**

1 day (7 hours) and 2 evenings (6 hours) each week.

#### **Subjects**

Plant Technology, Plant Vehicle Electricity/Electronics, Engineering Science, Mathematics, Technical Drawing, Garage and Workshop Practice, General Studies.

#### **Entrance Qualifications**

Apprenticeship to the Trade.

*The Minister for Labour  
Bertie Ahern, TD,  
formally opens the new  
Charles Warren  
Transport Engineering  
Test Laboratory in the  
College.*





D170

### **MOTOR VEHICLE PARTS PERSONNEL**

#### **Objective**

The City & Guilds of London Institute Vehicle Parts Personnel Certificate (384), Part I.

#### **Duration of Course**

2 years part-time day and evening course (9 hours per week).

#### **Subjects**

Parts Merchandising, Commercial Practice and Office Procedures, Stores Administration, Motor Vehicle Knowledge, General Studies including English and Computer Studies.

#### **Entrance Qualifications**

Apprenticeship to the Trade.

D171A

### **LIGHT VEHICLE BODY REPAIR: Off-the-job**

#### **Objective**

The City & Guilds of London Institute 385 Certificate.

#### **Duration of Course**

Six months part-time day (7 hours) and two evenings (6 hours) each week.

#### **Subjects**

Motor Vehicle Knowledge, Motor Vehicle Body Repair, Engineering Science, Mathematics, Technical Drawing, Welding, Workshop and Laboratory Practice.

#### **Entrance Qualifications**

Enrolment as an apprentice in an approved Training Centre.

D171B

### **LIGHT VEHICLE BODY REPAIR: Block Release**

#### **Objective**

The City & Guilds of London Institute 385 Certificate Parts I and II

#### **Duration of Course**

Block release for 11 weeks during each year of apprenticeship.

#### **Subjects**

Motor Vehicle Knowledge, Motor Vehicle Repair, Engineering Science, Mathematics, Technical Drawing, Welding, Workshop and Laboratory Practice, General Studies.

#### **Entrance Qualifications**

Apprenticeship to the Trade.

D171C

### **LIGHT VEHICLE BODY REPAIR: Day Release**

#### **Objective**

The City & Guilds of London Institute 385, Parts I and II Certificates.

#### **Duration of Course**

4 years part-time day and evening course, 1 day (7 hours) and 2 evenings (6 hours) each week, 38 weeks each year.

#### **Subjects**

Motor Vehicle Knowledge, Motor Vehicle Body Repair, Engineering Science, Mathematics, Technical Drawing, Welding, Workshop and Laboratory Practice.

#### **Entrance Qualifications**

Apprentice to the Trade.

D176

### **AUTOMOBILE ENGINEERING**

#### **Objective**

Department of Education Junior & Senior Trade Certificates with endorsements.

#### **Duration of Course**

Four years of day release (1 day and 1 evening per week).

#### **Subjects**

Workshop Practice, Workshop Technology, Mathematics and Craft Calculations, Technical Drawing, Engineering Science and General Studies.

#### **Entrance Qualifications**

Apprenticeship to the Trade.



## PRINTING TRADES COURSES

### D190 COMPOSITORS' WORK: Block Release

**First year attendance:** twenty three weeks.

**Second year attendance:** eight weeks.

**Third year attendance:** eight weeks.

Students are prepared for the Trade Certificate Examinations of the Department of Education in Compositors Work.

#### Entrance Requirements

Apprenticeship to the Trade.

### D191 BOOKBINDING: Block Release

**First year attendance:** twenty three weeks.

**Second year attendance:** eight weeks.

**Third year attendance:** eight weeks.

Students are prepared for the Trade Certificate Examinations of the Department of Education in Bookbinding.

#### Entrance Requirements

Apprenticeship to the Trade.

*Printing apprentices at work on a printing machine in the College.*



D192

### LITHOGRAPHY: Block Release

**First year attendance:** twenty three weeks.

**Second year attendance:** eight weeks.

**Third year attendance:** eight weeks.

Students are prepared for the Trade Certificate Examinations of the Department of Education in Lithography.

#### Entrance Requirements

Apprenticeship to the Trade.

D193

### GRAPHIC REPRODUCTION: Block Release

**First year attendance:** twenty three weeks

**Second year attendance:** eight weeks

**Third year attendance:** eight weeks

Students are prepared for appropriate examinations.

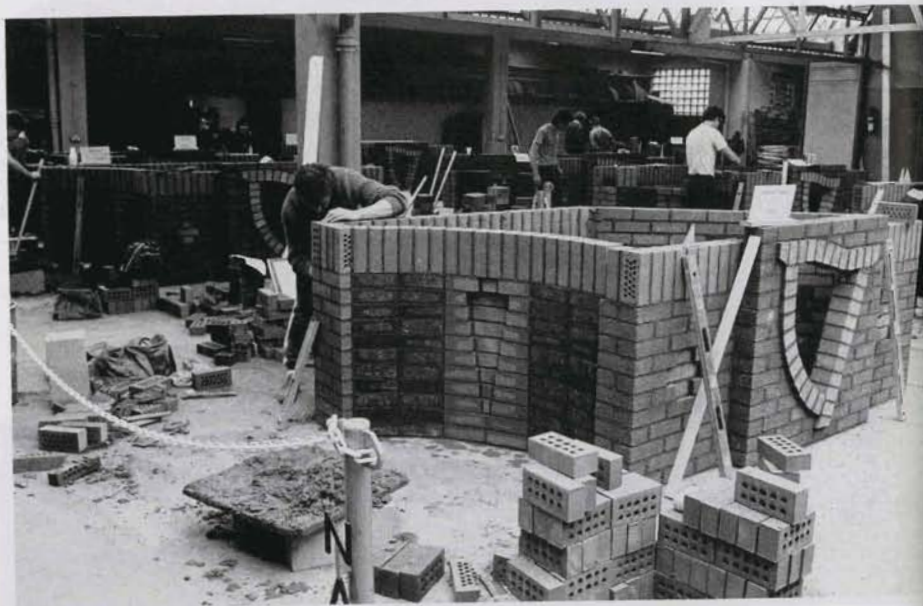
#### Entrance Requirements

Apprenticeship to the Trade.



## STUDENT DISCIPLINE

1. Students are expected to participate in College activities in a manner conducive to establishing a sound educational atmosphere.
2. All students are required to observe the published regulations laid down by the College.
3. Any student disrupting or causing disruption of any College activity may be suspended from the College.
4. Students must at all times obey the lawful instructions of lecturers and other members of the college staff who are responsible for the maintenance of good order.
5. Misconduct in any of the Colleges comprising the Institute may lead to suspension by the College Principal of the student or students concerned.
6. Students are liable for the cost of repair or replacement of Institute or College property maliciously or negligently damaged by them.
7. Students are not allowed to smoke in the College except in areas designated for smoking.
8. Students are required to carry their Identity Card with them while in College or wherever they may be required to identify themselves as students of the College.
9. The Vocational Educational Committee reserves the right to expel from the College at any time any student whose conduct is in serious breach of the regulations.
10. Students are forbidden to park cars/bicycles/motor cycles except in such places as they are authorised to do so from time to time.



## FOR FURTHER INFORMATION

Enquirers seeking further information about Day or Block Release apprenticeship and other craft-related courses provided by the college should contact Departments as follows:—

Department of Building Trades 'A'	– Courses D101 – D111 inclusive.
Department of Building Trades 'B'	– Courses D121 – D122 inclusive.
Department of Metal Fabrication & Plumbing	– Courses D123 – D132 inclusive.
Department of Engineering Trades	– Courses D140 – D142 inclusive.
Department of Transport Engineering	– Courses D154 – D176 inclusive.
Department of Printing and Graphic Communication	– Courses D190 – D193 inclusive.

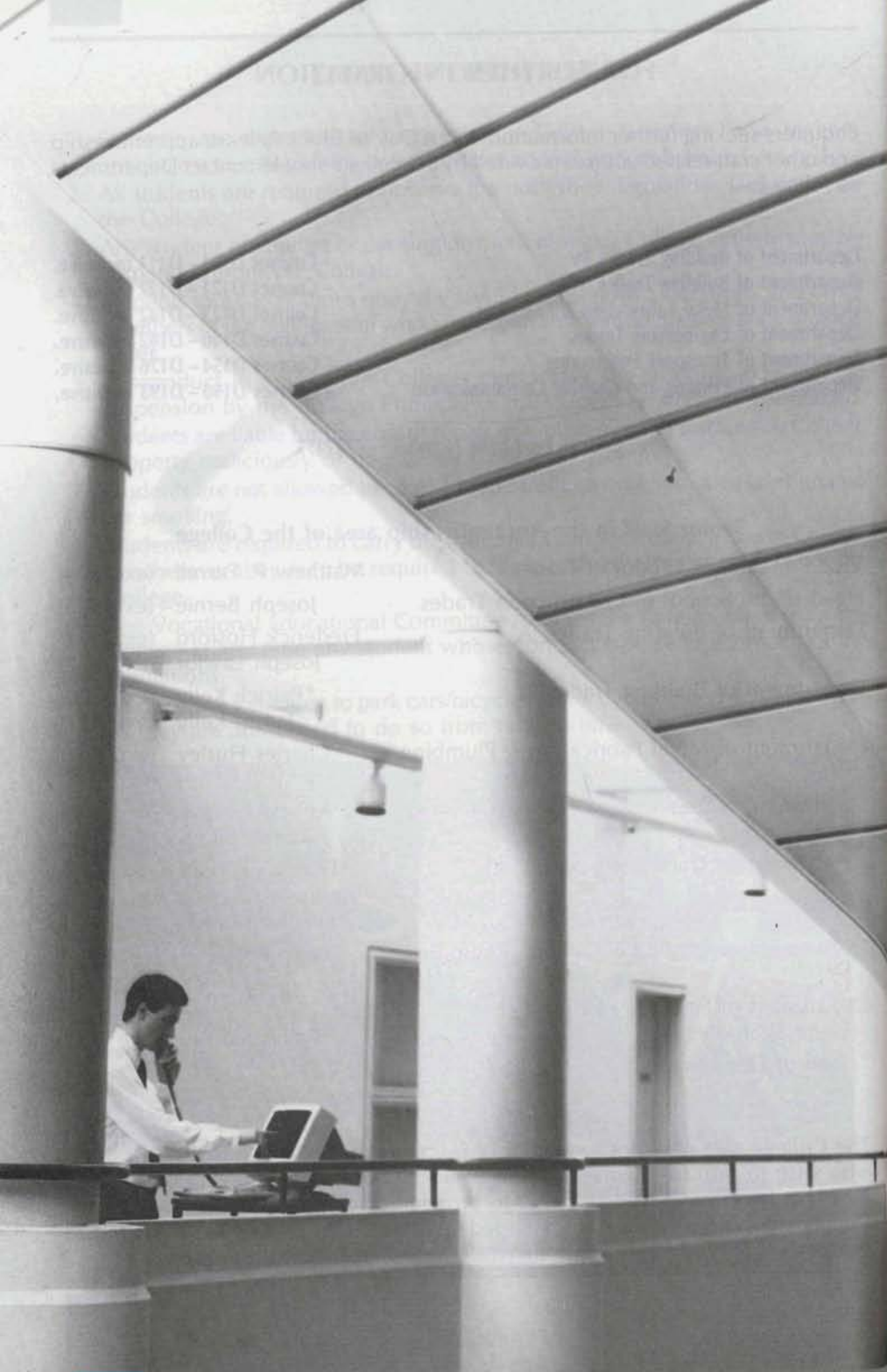
College Telephone Number 727177

### Senior Staff in the Apprenticeship area of the College

Vice Principal — School of Trades	Matthew P. Farrell (ext. 504)
Head of the School of Construction Trades	Joseph Bernie (ext. 505)
Department of Building Trades 'A'	Frederick Hosford (ext. 512)
	Joseph Lawlor (ext. 511)
Department of Building Trades 'B'	*Patrick Kelly (ext. 520)
	James Kelly (ext. 521)
Department of Metal Fabrication & Plumbing	Charles Hurley (ext. 542)
	Seamus Murrin (ext. 531)
Department of Engineering Trades	*Robert Eustace (ext. 202)
	Joseph Shiels (ext. 204)
Department of Transport Engineering	*Dominick Tuite (ext. 120)
	Kenneth Bracken (ext. 118)
	William Brazil (ext. 552)
Department of Printing & Graphic Reproduction	*Brian Kennedy (ext. 220)
	John Foley (ext. 216)
Department of Science, Mathematics & General Studies	Philip Murray (ext. 532)
*Head of Department.	

The College also provides a number of Evening courses which may assist those who wish to resit for elements of the Senior Trade examinations in which they have not been successful so far or to broaden or enhance their qualifications. Details of these courses are provided in a separate section of the College prospectus, in leaflets or in another publication available on request.





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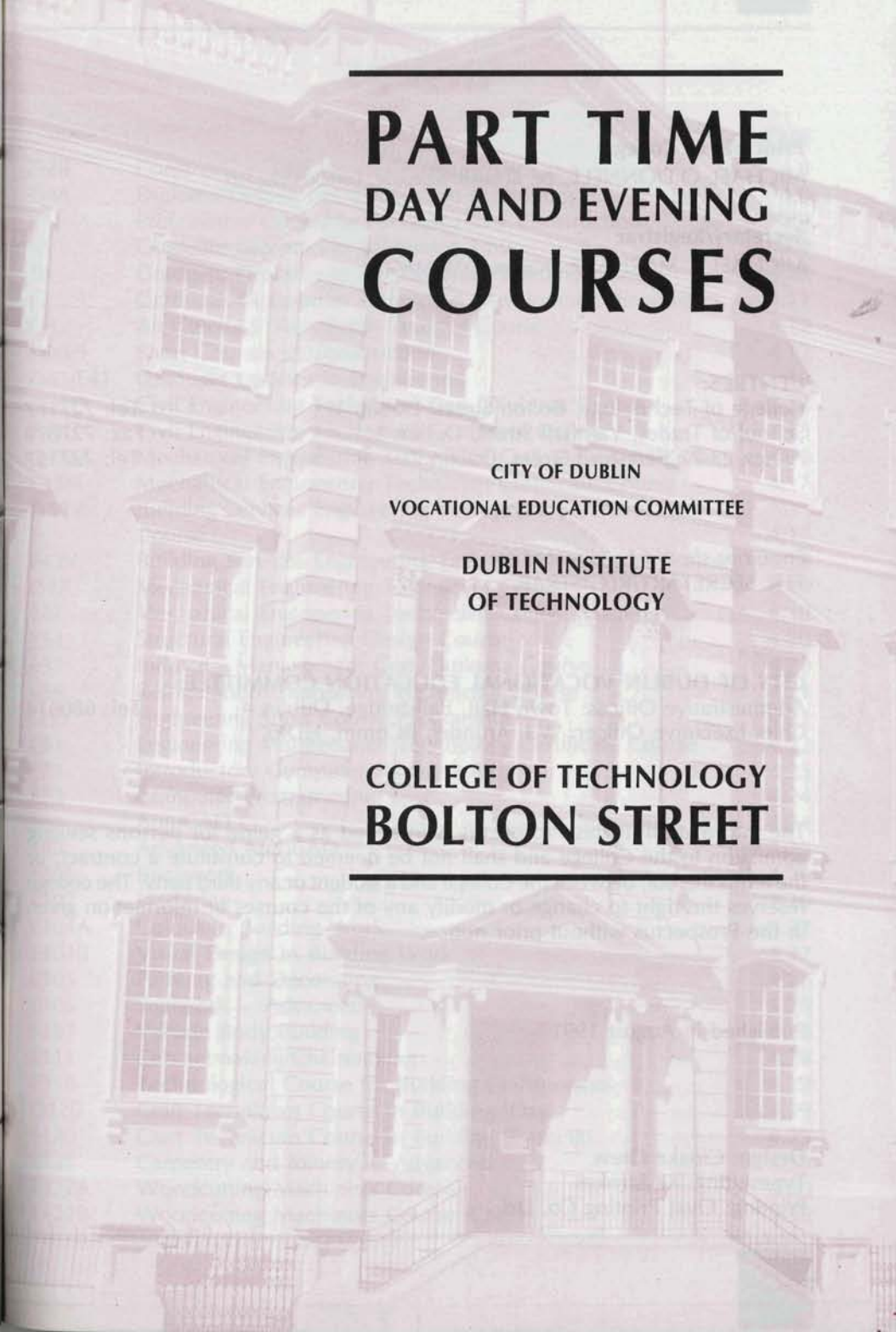
# PART TIME DAY AND EVENING COURSES

CITY OF DUBLIN  
VOCATIONAL EDUCATION COMMITTEE

DUBLIN INSTITUTE  
OF TECHNOLOGY

COLLEGE OF TECHNOLOGY  
BOLTON STREET

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### Principal of College

MICHAEL O'DONNELL, BE, BComm, MEconSc, Eurlng, CEng, FIEI

### Secretary/Registrar

MICHAEL J. MARNANE, BComm, DPA, MACRA

### CENTRES:

College of Technology, Bolton Street, Dublin 1.

School of Trades, Yarnhall Street, Dublin 1.

Annex 23-27 Beresford Street, Dublin 7

Tel: 727177

Fax: 727879

Tel: 727157

Enquiries should be directed to:  
THE SECRETARY/REGISTRAR.

### CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE:

Administrative Offices: Town Hall, Ballsbridge, Dublin 4.

Chief Executive Officer: W.J. Arundel, BComm, HDip.

Tel: 680614

The information in this Prospectus is intended as a guide for persons seeking admission to the College and shall not be deemed to constitute a contract, or the terms thereof, between the College and a student or any third party. The college reserves the right to change or modify any of the courses or information given in the Prospectus without prior notice.

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## PART-TIME DAY AND EVENING COURSES — CONTINUING EDUCATION AND PROFESSIONAL DEVELOPMENT

### INTRODUCTION

The College has a strong commitment to providing a wide range of part-time day and/or evening courses relating to its main specialisations in Construction Engineering and Printing disciplines and associated areas. The aim of these courses is to provide both young people, and the not so young with opportunities to achieve worthwhile qualifications and to enhance and broaden their existing qualifications base.

Some of the part-time courses offered by the College parallel those available on a whole-time basis and enable those who enrol in them to achieve the same qualifications as those pursuing them through full-time studies. Not surprisingly the part-time route takes a little longer and involves a considerable commitment on the part of those who combine their studies with full-time employment.

The part-time courses offered by the College have enabled many past students to advance in their careers by exploiting the educational ladders which they provide. In this way successive generations of craftspersons have progressed to supervisory and technician positions, technicians have moved on to professional levels, while professionals have advanced their status to managerial or other senior positions, all greatly assisted by the courses they have followed. Some have also used them to change their career path to another specialisation or by updating their expertise in the new technologies and other advances.

The College is anxious to respond in a flexible manner to the needs of its potential part-time students. It offers some courses on either a part-time day or evening basis on through a combination of these modes. It finds that many employers are very supportive of students pursuing relevant part-time courses, paying their tuition fees, releasing them and/or facilitating them when they have to undertake course work or study.

If you are interested in pursuing studies on a part-time basis you are encouraged to review carefully the range of programmes offered by the College in Construction, Engineering, Printing, Transport or related disciplines as described in this publication. If the College is not offering the course which you are looking for and you feel that there is a significant demand for it you are invited to bring it to the attention of the appropriate Head of Department or other senior college staff. In this context the College welcomes proposals from groups of potential students or employers regarding the establishment of new courses.

### TUITION FEES

The College offers most of its programmes at moderate tuition fees although in some areas for budgetary reasons they have to be set at an economic level. These fees are set out below and are payable in full on enrolment and before attendance at the first class. Fees are not refundable except where a class does not form due to a low level of enrolment, etc.

## ENROLMENT FEES FOR PART-TIME DAY AND EVENING COURSES IN THE 1991/92 SESSION

<b>Part-time Day and Evening Courses:</b>	D2B; D41; D43C; D43M; D43V; D47; D120; D132; D174; D2000 }	<b>£192</b>
<b>General Evening Courses</b>	E71; E72; E81; E82; E141G E141D; E141E; E141F; E195C Other Evening Courses	<b>£290</b> <b>£200</b> <b>£145</b>
<b>Graduate Post-Graduate and Other Courses</b>	D4A E5 E6; E7 D8	<b>£544</b> <b>£800</b> <b>£520</b> <b>£1,050</b>

### METHOD OF APPLICATION AND ENROLMENT

The week commencing Monday September 9, 1991 (6.30 p.m.-8.30 p.m. each evening) has been scheduled for enrolment for almost all the part-time day and evening courses offered by the College. Prior application or contact with the College is not necessary. Candidates are encouraged to bring with them evidence of existing qualifications and employment together with the specified tuition fee (or confirmation from an employer willing to pay it when invoiced) to enable them to complete the enrolment if they are acceptable and permitted to do so. Classes are generally scheduled to commence during the week commencing September 23 and those who have enrolled will be expected to report for classes in accordance with the schedule which will be available.



## CONSTRUCTION TECHNICIAN CERTIFICATE/ DIPLOMA PART-TIME

This day release course is similar to the wholetime Construction Technician Certificate/Diploma course (B114) and leads to the award of the Construction Technician's Certificate/Diploma. Classes are scheduled on one day and two evenings per week over a period of four years. Entry to this course is open to those holding:

- (a) The secondary schools Leaving Certificate in at least five subjects including Mathematics and English or an equivalent qualification.
- (b) Appropriate employment in the Construction Industry.

**Department in Charge**  
**Surveying and Building Technology.**

## DIPLOMA/DEGREE IN CONSTRUCTION ECONOMICS PART-TIME

This day release course is similar to the corresponding wholetime course (B111) and leads to the award of a Diploma/Degree in Construction Economics. Classes are scheduled on one day and two evening per week over a period of six years. The academic entry qualifications to the First Year of the course are similar to these for B111. Candidates holding relevant technician qualifications at an appropriate level may be eligible for exemptions from one or more years of the course. Candidates must be in appropriate employment in the Construction Industry.

**Department in Charge**  
**Surveying & Building Technology.**

## PROFESSIONAL COURSE IN SURVEYING AND CONSTRUCTION STUDIES

This evening course assists, students who hold Intermediate Level qualifications in the construction and surveying fields, in progressing to full professional qualifications of appropriate institutions. Students may attend classes up to two evenings per week depending on their choice of subjects.

### Entry Qualifications

N.C.E.A. Diploma in Construction Studies, C.T.D., Member 1 Examination of C.I.O.B. or R.I.C.S., Part 1 examinations.

**Department in Charge**  
**Surveying and Building Technology.**

## GRADUATE DIPLOMA IN ARBITRATION LAW

The objectives of this one year part-time course are to provide participants with a better knowledge of the law and arbitration including the Arbitration Acts of 1954 and 1980. It has been developed at the request of and in co-operation with the Irish Branch of the Chartered Institute of Arbitrators. It is expected that the course will be offered in the 1991/92 session and that it will be repeated every second year subsequently.

### Entrance Requirements

Relevant professional qualification (e.g. Law, Engineering, Architecture, Surveying, Accountancy, Insurance etc.) with exemptions from modules (a) and (b) for practising lawyers and those with a recognised law degree. Exceptionally, applications will be accepted from unqualified students who have appropriate training or experience. Selection will be subject to interview. Exempted students will be deemed to enrol in course E5A.

*A model  
of a design.*





### Course of Study

The course comprises of three taught modules and two seminars. The taught modules are: (a) Legal Principles, Civil Procedure & Evidence (b) Contract & Tort and (c) Arbitration Law & Procedure, Alternative Methods of Dispute Resolution. The two seminars which are organised by the Irish Branch of the Chartered Institute of Arbitrators deal with: (i) Introduction to Arbitration and (ii) ADR and Award Writing. They are subject to a separate fee payable to the Irish Branch of the Institute.

### Examinations & Awards

On successful completion of course students will be awarded the **Dublin Institute of Technology Graduate Diploma in Arbitration Law**. It is intended to seek exemption for holders of this Diploma from Parts I and II of the examinations of the Chartered Institute of Arbitrators.

**Department in Charge**  
**Surveying & Building Technology**

## E6 GRADUATE DIPLOMA IN INTERNATIONAL ARBITRATION LAW

The objectives of this one year part-time course are to provide a better knowledge of the practice of international arbitration law and procedures. It has been developed at the request of and in co-operation with the Irish Branch of the Chartered Institute of Arbitrators and will next be offered in the 1992/93 session.

### Entrance Requirements

Application will be open to those holding the DIT Diploma in Arbitration Law, Fellows of the Chartered Institute of Arbitrators and those who have passed Parts I and II of the examinations of that Institute. Selection will be subject to interview.

### Course of Study

The course comprises two taught modules and four special seminars. The taught modules are:  
(a) Comparative Law & Procedure; (b) International Arbitration, Practice & Procedure. The special intensive two day seminars are led and directed by visiting specialist lecturers and are organised by the Irish branch of the Chartered Institute of Arbitrators.

On successful completion of the course students will be awarded the **Dublin Institute of Technology Graduate Diploma in International Arbitration Law**.

**Department in Charge**  
**Surveying & Building Technology.**

E7

## GRADUATE DIPLOMA IN PLANNING AND DEVELOPMENT ECONOMICS

The objective of this part-time post-graduate course, which extends over two academic years, is to meet the educational requirements for practice as a Planning and Development Surveyor.

### Entrance Requirements

- (1) (a) a recognised professional qualification in the fields of Planning, Architecture, Surveying, Engineering, Law, Accountancy  
or  
(b) an Honours Degree in an appropriate discipline viz. Surveying, Economics, Law, Geography, Business Studies.  
and  
(2) Employment in, or evidence of appropriate post-certification work experience in the Built Environment field.

### Course of Study

The course consists of two parts:  
Part I subjects are Valuations, Law, Urban Land Economics, Taxation and Rating, Building Technology and Management, and Principles and Techniques of Planning.

Part II consists of one integrated subject area containing a number of elements under the general title 'Planning and Development Policies, Practice and Procedures'.

### Examinations & Awards

Part I examinations in the subjects listed above will be held at the end of Year 1. Part II examinations will be held and a major planning and development case study presented at the end of Year II.

On successful completion of the course, students are expected to qualify for the award of a **Dublin Institute of Technology Graduate Diploma in Land Use Economics**. Exemption will be sought for holders of this Diploma from the Part II and III examinations of the Planning and Development Division of the Royal Institution of Chartered Surveyors.

**Department in Charge**  
**Surveying & Building Technology.**



## D8 ARCHITECTURAL TECHNICIAN TRANSFER COURSE

This is a course for Technician members of the Royal Institute of the Architects of Ireland who wish to transfer from Architectural Technician Class of the RIAI to the study of Architecture via the RIAI examination system. Success in the course will give exemption from the Intermediate Examinations of the Institute.

The course extends over one year (26 weeks) and is not offered every year. Selection of students is made by the Royal Institute of the Architects of Ireland to whom application should be made in the first instance. It may be offered in the 1991/92 session if the demand justifies it.

**Course of Study** Subjects of the course are: Theory of Architecture; History of Architecture; Urban Studies; and Architectural Design.

**Entry Qualifications** Technician Membership of the RIAI and selection by the RIAI.

**Department in Charge**  
**Architecture & Town Planning.**

## D9/E9 SHORT COURSES

Short Courses in aspects of Building, Project Management and Computer Applications may be held during the session. Enquiries relating to these will be welcomed by the Department of Surveying and Building Technology.

**Department in Charge**  
**Surveying and Building Technology.**

## D41/E41 GRADUATE COURSES IN ENGINEERING

A day and/or evening course to prepare students for the Part II examinations of Professional Engineering Bodies including:—

- (i) Institution of Engineers of Ireland.
- (ii) The Engineering Council (UK) and its associated Professional Bodies such as:—
  - (a) The Institution of Mechanical Engineers;
  - (b) The Institution of Production Engineers;
  - (c) The Institution of Structural Engineers;
  - (d) Chartered Institute of Building Services Engineers.

Courses are offered for subjects in the Part II stage provided there are sufficient applicants of a suitable educational standard.

Depending on demand, the following Part II subjects may be offered: The Engineer in Society, Mechanics of Solids, Materials, Structural Analysis, Structural Design, Thermodynamics, Fuel and Energy, Construction Management, Geotechnical Engineering and possibly other subjects. Students are required to complete a Laboratory Programme as part of this course.

Details of the syllabus and examination regulations are available from the Institution of Engineers of Ireland, 22 Clyde Road, Dublin 4, or the Engineering Council, Examination Dept., Second Floor, Savoy Hill House, London WC2R 0BU, Tel: 01-379 7459.

**Entrance Requirements** Before entry, applicants must meet the requirements of the appropriate Institution for student membership. They are urged to make early applications to the Institutions because it may take several months to process and it is not possible to sit the examinations until this has been completed.

The requirement for students membership of the Institution of Engineers of Ireland is Leaving Certificate with Honours or GCE Advanced Level in Mathematics and a suitable Science subject together with four Ordinary Level subjects including English.

Certain Technician qualifications also meet the educational requirements for student membership and may give exemption from all or some subjects in Part I. Details are available from the Department of Engineering Technology.

**Department in Charge**  
**Engineering Technology**



## CIVIL ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA COURSE

This part-time day and evening course prepares students for a Technician Certificate/Diploma in Civil Engineering. Students are expected to be already suitably employed in a Civil Engineering or Construction firm before commencing this course. It parallels the corresponding wholtime course B126 and follows the same core syllabus.

### Entrance Requirements

Leaving Certificate or equivalent with passes in Mathematics, a Science subject (preferably Physics), English and two other subjects or a Senior Trade Certificate with suitable endorsement subjects.

### Course of Study

**Stage I — First and Second Year Subjects:** Mathematics, Engineering Science, Mechanics, Drawing, Surveying, Construction Technology and Complementary Studies.

**Stage II — Third and Fourth Years (Certificate Stage) Subjects:** Structural Design and Detailing, Engineering Materials and Laboratory Work, Mathematics and Computing, Construction Services and Supplies, Surveying, Planning and Administration, and Complementary Studies.

**Stage III — Fifth and Sixth Years (Diploma Stage)** This stage offers options in Municipal Engineering and Structural Engineering. Candidates are expected to be employed and gaining suitable experience in the appropriate field and are required to have passed the Certificate Stage with Credit, or have one years suitable experience together with a Pass Certificate.

(Municipal Option): Mathematics, Road Engineering, Management Studies, Planning and Building Regulations, Hydraulics and Sanitary Services, Design and a Project.

(Structural Option): Mathematics, Management Studies, Theory of Structures, Structural Design (Concrete), Structural Design (Steel), Municipal Engineering and a Project.

### Examinations and Other Requirements

At the end of each session students take a College examination which is moderated by the National Council for Educational Awards and the Dublin Institute of Technology.

### Recognition by Professional Bodies

Those who have successfully completed the Certificate Stage of the course meet the academic requirements for Technician Status with the Institution of Engineers of Ireland, while those who have completed the Diploma stage meet the Technician Engineer level and can qualify for the non-Corporate Associateship grade of Membership after they have completed a suitable period of practical training.

### Department in Charge Engineering Technology

## CIVIL ENGINEERING TECHNICIANS' CERTIFICATE COURSE

This is a four-year evening course to prepare students in suitable employment for a Civil Engineering Technicians' Certificate. It parallels Course D43C and Course B126 and follows the same syllabus.

### Entrance Requirements

The entrance requirement is Leaving Certificate in five subjects including Mathematics or equivalent qualification.

### Course of Study

#### Stage I — First & Second Year Subjects:

Mathematics, Mechanics, Engineering Science, Construction Technology, Drawing, Surveying and Complementary Studies.

#### Stage II — Third & Fourth Year (Certificate Stage) Subjects:

Structural Design and Detailing, Engineering Materials, Surveying, Mathematics and Computing, Planning and Administration, Construction Services, Complementary Studies.

### Department in Charge Engineering Technology.

## MECHANICAL ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA COURSE

This part-time day and evening course prepares students for a Technician Certificate/Diploma in Mechanical Engineering. Students are expected to be already suitably employed in Mechanical Engineering before commencing the course. It parallels the corresponding wholtime course B128 and follows the same core syllabus.



### Entrance Requirements

Leaving Certificate or equivalent with passes in Mathematics, a Science subject (preferably Physics), English, and two other subjects or a Senior Trade Certificate with suitable endorsement subjects.

### Course of Study

**Stage I — First and Second Year** — Subjects: Mathematics, Engineering Science, Mechanics, Drawing, Instrumentation and Materials, Workshop Technology and Complementary Studies.

**Stage II — Third and Fourth Years (Certificate Stage):** At this stage three options are offered: Mechanical, Welding and Fluid Power.

**Common Subjects:** Mathematics, Thermal and Fluid Plant, Electrotechnology and Industrial Instrumentation, and Complementary Studies.

**Mechanical Option:** Mechanics, Drawing, Design and Engineering Materials, and Production Technology.

**Welding Option:** Design and Materials, Welding Technology, and Welding Inspection.

**Fluid Power Option:** Fluid Power I, Fluid Power Systems, and Machine Controls.

**Stage III — Fifth and Sixth Years (Diploma Stage)** At this stage an Instrumentation Option is offered on a part-time basis at present and candidates are expected to be employed in this field. Subjects: Mathematics, Mechanics, Complementary Studies, Electrotechnology and Electronics, Control Engineering, Industrial Instrumentation, Design, and Project Work.

Candidates are required to have passed the Certificate Stage with Credit (Merit) or to have at least one year's suitable experience together with a Pass Certificate.

### Examinations and Other Requirements

At the end of each of each session students take a College examination which is moderated by the National Council for Educational Awards and the Dublin Institute of Technology.

### Recognition by Professional Bodies

Those who have successfully completed the Certificate Stage of this course meet the academic requirements for Technician Status with the Institution of Engineers of Ireland, while those who have completed the Diploma stage meet the Technician Engineer level and can qualify for the non-Corporate Associateship grade of Membership after they have completed a suitable period of practical training.

**Department in Charge**  
**Engineering Technology.**

### E43M

## MECHANICAL ENGINEERING TECHNICIANS' CERTIFICATE COURSE

This is a four-year evening course to prepare students in suitable employment for Mechanical Engineering Technician Certificate. It parallels Course B128 and D43M and follows the same syllabus but specialised options may be available in both Fluid Power and Welding.

### Entrance Requirements

The entrance requirement is Leaving Certificate in five subjects including Mathematics and English, or the Senior Trade Certificate with endorsement, or equivalent qualification.

### Course of Study

**Stage I — First & Second Year Subjects:** Mathematics, Engineering Science, Drawing, Mechanics, Instrumentation and Engineering Materials, Workshop Technology, Complementary Studies.

**Stage II — Third & Fourth Year (Certificate Stage)** At this stage three options are offered, Mechanical, Welding and Fluid Power Engineering.

**Common Subjects:** Mathematics, Thermal and Fluid Plant, Electrotechnology and Industrial Instrumentation, Complementary Studies.

**Mechanical Option:** Mechanics, Drawing, Design and Engineering Materials, and Production Technology.

### D43V

## BUILDING SERVICES ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA COURSE

This part-time day and evening course prepares students for a Technician Certificate/Diploma in Building Services Engineering. Students are expected to be already suitably employed in Building Services Engineering before commencing the course. It parallels the corresponding whole-time Course B127 and follows the same core syllabus.

### Entrance Requirements

Leaving Certificate or equivalent with passes in Mathematics, a Science subject (preferably Physics) and two other subjects or a Senior Trade Certificate with suitable endorsement subjects.



## Course of Study

**Stage I — First and Second Years** Subjects: Mathematics, Mechanics, Engineering Science, Drawing, Instrumentation, Building Construction and Services and Complementary Studies.

### Stage II — Third and Fourth Years (Certificate Stage):

At this stage two options are available, **Building Services** and **Refrigeration Technology**.

**Common Subjects:** Mathematics, Thermal and Fluid Plant, Electrotechnology and Industrial Instrumentation, Complementary Studies.

**Building Services Option:** Environmental Engineering, Environmental Plant Design, Lighting, Acoustics and Water Services.

**Refrigeration Technology Option:** Refrigeration Plant, Refrigeration Design, Lighting, Acoustics and Water Services.

**Stage III — Fifth and Sixth Years (Diploma Stage):** Mathematics, Management Studies, Electrotechnology and Controls, Lighting and Acoustics, Environmental Engineering, Air Conditioning and Refrigeration, Heating and Combustion and a Project.

**Department in Charge**  
**Engineering Technology.**

E43V

## BUILDING SERVICES ENGINEERING TECHNICIAN CERTIFICATE COURSE

This is a four year evening course to prepare students in suitable employment for a Building Services Engineering Technician Certificate. It parallels Course B127 and Course D43V, and follows the same syllabus.

### Entrance Requirements

Leaving Certificate in five subjects including Mathematics or Senior Trade Certificate with endorsement or equivalent qualification.

### Course of Study

**Stage I — First & Second Years** Subjects: Mathematics, Mechanics, Engineering Science, Drawing, Instrumentation, Building Construction and Services, and Complementary Studies.

**Stage II — Third & Fourth Year (Certificate Stage) Subjects:** At this stage two options are available, Building Services and Refrigeration Technology.

**Common Subjects:** Mathematics, Thermal and Fluid Plant, Electrotechnology and Industrial Instrumentation, Complementary Studies.

**Building Services Option:** Environmental Plant Design, Lighting, Acoustics and Water Services, Environmental Engineering.

**Refrigeration Technology Option:** Refrigeration Plant, Refrigeration Design, Lighting, Acoustics and Water Services.

**Department in Charge**  
**Engineering Technology.**

D47

## MECHANICAL ENGINEERING TECHNICIAN COURSE

This part-time day and evening course is intended to prepare students for the City & Guilds of London examinations for Mechanical Engineering Technicians (255). The course is for technicians and draughtsmen engaged in the following types of employment:

Machine Tool Operation, Jig & Tool Design, Engineering Production and Design Draughtsmen.

### Entrance Requirements

Elementary Stage Technological Certificate of the Department of Education in Mechanical Engineering or Leaving Certificate or endorsement in Senior Craft Certificate.

### First Year

Workshop Processes and Practice, Engineering Drawing and Materials, Engineering Science, Mathematics, General Studies.

### Second Year

Science and Mathematics, Drawing and Materials, Production Technology and General Studies.

### Third Year

Production Technology, Mathematics and Statistics, Metrology and Management Studies.

### Examinations and Other Requirements

At the end of the first year students take the Part I examination of the City & Guilds of London Institute No. 255, Part II at the end of the second year, and Part III at the end of the third year.

**Department in Charge**  
**Engineering Technology**

E47

## MECHANICAL ENGINEERING TECHNICIAN COURSE

This is a three year evening course to prepare students for the Part I, Part II and Part III examinations of the City & Guilds of London Institute course for Mechanical Engineering Technicians (255) Students should have a suitable craft background and hold the Senior Craft Certificate with endorsement, Elementary Technological Certificate in Mechanical Engineering, GCE, Leaving Certificate or equivalent.

The course of study is as set out for Course D47 which is the parallel part-time day course.

**Department in Charge**  
**Engineering Technology.**



## **E54 STRUCTURAL DESIGN COURSE**

This is a one year advanced course intended for those who wish to prepare for the Part III Design examination of the Institution of Structural Engineers. Depending on demand, there may be options in Steel or Concrete Design.

### **Entrance Requirements**

A degree in Civil or Structural Engineering, or a pass in IEI/ Engineering Council examinations, or equivalent, together with at least one year of suitable post-graduate experience in a structural design office.

**Department in Charge**  
**Engineering Technology.**

## **E57 INDUSTRIAL MANAGEMENT CERTIFICATE AND DIPLOMA COURSE**

This is a two year evening Certificate course intended for engineering technicians and trainee production and industrial managers who wish to take the certificate examinations of the Institution of Industrial Managers. The Diploma stage is intended primarily for those responsible for discharging management functions.

### **Entrance Requirements**

Students entering the Certificate course should have reached the Leaving Certificate standard of general education and be suitably employed as managers or supervisors in industry. Applicants holding an appropriate degree or professional qualification and substantial management experience may be admitted directly into the Third Year of Diploma Stage.

### **Course of Study**

**First Year** Subjects: Production and Operational Management, Industrial Environment, Industrial Management and Organisation, Microelectronics and Data Handling.

**Second Year** Subjects: Production and Operation Management, Industrial Finance, Personnel and Industrial Relations.

**Third Year (Diploma Stage)** Subjects: This involves a further one year period of study of Industrial Management Policy and Practice in which knowledge acquired during the Certificate course is applied to solve practical problems by an integrated approach using case studies, etc.

### **Examinations and Other Requirements**

Students must pass a College examination at the end of each year. The examination is moderated by the Institution of Industrial Managers. Those who successfully complete the Certificate course qualify for Associate Membership of the Institution of Industrial Managers. Successful students may continue their studies on the one year Diploma course, which leads to the Membership grade (MIIM).

Those who enrol are required to apply for student membership of the Institution prior to embarking on the course.

**Department in Charge**  
**Engineering Technology.**

## **E58 REFRIGERATION ENGINEERING TECHNICIAN COURSE**

This is a two year course for technicians employed in the refrigeration engineering industry. Suitable students are prepared for the City & Guilds of London Institute examinations in Science and Technology of Refrigeration (257). The subjects of instruction are:— Science, Refrigeration Processes and Machinery, and Drawing.

**Department in Charge**  
**Engineering Technology.**

## **D59**

## **SHORT COURSE PROGRAMME**

A series of 1-5 day short courses on modern developments in Engineering Technology may be organised at different stages during the session. These may include:

- (a) Low Cost Automation;
- (b) Fluid Power;
- (c) Maintenance Management Techniques;
- (d) CAD/CAM
- (e) New Developments in Welding Technology;
- (f) Fuel Technology;
- (g) Fire Safety;
- (h) Structural Design Codes;
- (j) New Materials;
- (k) Water Pollution Control;
- (l) Energy Conservation;
- (m) Engineering Costing and Estimating.

**Department in Charge**  
**Engineering Technology.**



## **E61 MAINTENANCE TECHNOLOGY CERTIFICATE COURSE**

### **AIMS OF THE COURSE**

This course will provide participants with a knowledge of maintenance strategies and with the knowledge and skills to cope with the demands of modern maintenance requirements.

The course is organised on a modular basis and has considerable flexibility for craftspersons and other maintenance staff to enhance their qualifications.

### **ENTRANCE REQUIREMENTS**

Leaving Certificate in five subjects including English and Mathematics or appropriate Senior Trades Certificate with endorsements or equivalent qualifications or mature applicants. Participants should have at least three years experience performing plant maintenance duties.

### **CERTIFICATION**

Certification will be provided by the National Council for Educational Awards and the course is offered in the NCEA ACCS mode to allow participants to study for individual subjects, groups of subjects or the entire course programme.

Certification will be provided on a technology option basis. With the requisite technology option and core subjects satisfactorily completed this will lead to the award of National Certificate in Technology, Maintenance Technology.

### **COURSE OF STUDY**

The following technology options and core subjects are initially being offered subject to demand.

#### **Common Core Subjects**

Mathematics, Computer Science, Maintenance Organisation

#### **Fluid Power Technology Option**

Fluid Power Sciences, Fluid Power Plant 1

#### **Refrigeration & Air Conditioning Option**

Basic Heat, Fundamentals of Refrigeration

**Department in Charge**  
**Engineering Technology**

## **E71 INTRODUCTORY COMPUTER PROGRAMMING**

This is a one year evening course in COBOL to prepare students for the City and Guilds Examination 424 (Preliminary Certificate in Applications Programming).

### **Entrance Requirements**

- (a) Leaving Certificate or equivalent and
- (b) Commercial or Industrial experience related to Computing.

### **Course of Study**

Fundamentals of Data Processing, Computing and Computer Hardware, File Organisation and Processing, Introduction to Software, Program Writing and Documentation.

### **Application Procedure**

Applicants must present themselves at the College for interview between 6.30 p.m. and 8.00 p.m. during the week commencing September 9th. Only those with written evidence of (a) and (b) above will be considered for the limited number of places available.

### **Other Information**

The course involves attendance on two evenings a week throughout the session.

*At work in one of the College's Computing Laboratories.*

**Department in Charge**  
**Science, Mathematics and Computing.**





## E72 COMPUTER PROGRAMMING

This is a one year evening course in COBOL to prepare students for the City and Guilds Examination 425 (Applications Programming Certificate)

**Entrance Requirements** City and Guilds Preliminary Certificate in Applications Programming in COBOL or equivalent.

**Course of Study** Fundamentals of Data Processing, Computing and Computer Hardware, File Organisation and Processing, Introduction to Software, Computerised Database Systems, Transaction Processing, Program Writing and Documentation, Developing and Testing Programs, Completion of an Approved Programming Project, Amendment to an Existing Program, Program Development Aids.

**Application Procedure** Applicants must present themselves at the College between 6.30 p.m. and 8.00 p.m. during the week commencing September 9th. Proof of qualification for entry must be furnished by applicants.

**Other Information** The course involves attendance on two evenings a week throughout the session.

**Department in Charge**  
**Science, Mathematics and Computing.**

## E81 AUTOCAD

This is a one year evening course to prepare students for the City & Guilds of London Institute Examination 4351 'Introduction to AutoCAD' and to give them a working knowledge of PC software and hardware.

**Entrance Requirements**

- (a) Leaving Certificate or equivalent.
- (b) Students must be employed in a technical position with access to a CAD system running AutoCAD Release 11. Preference will be given to those with a third level technical qualification in a drawing related discipline.

**Course Content** Using a personal computer; operating MS DOS and simple application packages; setting up and configuring AutoCAD; entity creation and modification; saving and maintaining drawing files; hardcopy generation.

**Application Procedure** Entry to this course is NOT on a first come, first served basis. Applicants should present themselves for interview between 6.30 p.m. and 8.00 p.m. any evening (Mon. — Thurs.) of the week commencing Mon. 9th September. Only those with written evidence of (a) and (b) above will be considered for the limited number of places available for this course.

**Department in Charge**  
**Science, Mathematics and Computing**

## E82 ADVANCED AUTOCAD

This is a one year evening course to prepare students for the City & Guilds of London Institute Examinations 4352 'Customising AutoCAD' or 4353 'Three dimensional drafting'.

**Entrance Requirements**

- (a) Leaving Certificate or equivalent.
- (b) Students must be employed in a technical position with access to a CAD system running AutoCAD Release 11.
- (c) City & Guilds 4351 Introductory AutoCAD or equivalent. Prospective students may be required to undertake a short practical examination as an alternative to (c). Preference will be given to students with a third-level technical qualification in a drawing-related discipline.

**Course Content** Customising AutoCAD by altering the standard menus; the use of simple LISP command to create new commands; the use of font files; the creation, modification and presentation possibilities available with the three dimensional capabilities offered by AutoCAD Release 11.

**Application Procedure** Entry to this course is NOT on a first come, first served basis. Applicants should present themselves for interview between 6.30 p.m. and 8.00 p.m. any evening (Mon. — Thurs.) of the week commencing Mon. 9th September. Only those with written evidence of (a) and (b) above will be considered for the limited number of places available for this course.

**Department in Charge**  
**Science, Mathematics and Computing.**



## CRAFT & TRADE RELATED COURSES — EVENING

Enquirers seeking further information about trade and trade-related courses should contact Departments as follows:

**Department of Construction Trades 'A'**  
E101, E102, E104, E104B, E105, E106, E107, E111

**Department of Construction Trades 'B'**  
E119, D120, E120, E121, E122A, E122B

**Department of Metal Fabrication & Plumbing**  
E123A, E123B, E123C, E123D, E125A, E125B, E128, E129A&B, E130, E131, D132, E132

**Department of Engineering Trades**  
E139, E140, E141A, B, C, D, E, F & G, E142

**Department of Transport Engineering**  
E150, E151, E152, E153, E154A, E154B, E155, E156, E159, E160, E164, E165, E168, E169, E170, E173A, E173B, E173C, E174, E176.

### E101 BRICKWORK

This course is designed to assist students to prepare for the Senior Trade Certificate Examinations of the Department of Education and the Advanced Certificates of the City & Guilds of London Institute.

**Duration** One year, one evening per week.

**Subjects** Trade Theory & Drawing.

**Entry Requirements** Prospective students must have completed 3 years of apprenticeship and hold the Department of Education Junior Trade Certificate.

### E102 PLASTERING

This course is designed to assist students to prepare for the Senior Trade Certificate Examination of the Department of Education and the Advanced Certificates of the City & Guilds of London Institute.

**Duration** One year, one evening per week.

**Subjects** Trade Theory & Drawing.

**Entry Requirements** Prospective students must have completed 3 years of apprenticeship and hold the Department of Education Junior Trade Certificate.

### E104

## CONSTRUCTION CRAFTS SUPPLEMENTARY STUDIES

### E104A

### Colour in Building Work

This course is designed to give craftspersons an opportunity to study colour, texture and pattern in building work.

**Duration** One year — 30 weeks at 3 hours per week.

**Course Content** The effects of colour, light, pattern and texture on building form and character.

**Entry Requirements** Senior Trade Certificate of the Department of Education in an appropriate construction trade or an equivalent qualification.

**Examination** City and Guilds of London Institute Certificate 600-1-09.

### E104B

### Design in Building Work

This course is intended to give craftspersons an opportunity to study structure, function and visual effects in buildings.

**Duration** One year — 30 weeks at 3 hours per week.

**Course Content** Design evaluation of structure, function and visual effects in buildings.

**Entry Requirements** Senior Trade Certificate of the Department of Education in an appropriate construction trade or an equivalent qualification.

**Examination** City and Guilds of London Institute Certificate 600-1-15.

### E105

## PAINTING AND DECORATING

### Objective

This course is designed to assist students to prepare for the Senior Trade Certificate Examination of the Department of Education and the Advanced Certificate of the City & Guilds of London Institute.

**Duration** One year, one evening per week.

**Subjects** Trade Theory & Drawing.

**Entry Requirements** Prospective students must have completed 3 years of apprenticeship and hold the Department of Education Junior Trade Certificate.



## **E106 SIGNWORK — ADVANCED**

This course is intended to give painting and decorating craftspersons an opportunity to improve their knowledge and skill in the preparation of signwork.

**Duration** One year — 30 weeks at 3 hours per week.

**Course Content** Design, shape and form in signwork. Production of signs, Glass Gilding and Etching, Ornamental Gilding, Silk Screening.

## **E107 VEHICLE BODY BUILDING**

This course is designed to assist students to prepare for appropriate Advanced Certificate Examination of the City & Guilds of London Institute.

**Duration** One year, one evening per week.

**Subjects** Trade Theory & Drawing.

**Entry Requirements** Prospective students must have completed 3 years of apprenticeship and have passed the City & Guilds of London Institute Certificate Examination Part I Vehicle Body Building & Repair.

## **E111 CABINETMAKING/CHAIRMAKING**

This course is designed to assist students to prepare for the Senior Trade Certificate Examination of the Department of Education and the Advanced Certificates of the City & Guilds of London Institute.

**Duration** One year, one evening per week.

**Subjects** Trade Theory & Drawing.

**Entry Requirements** Prospective students must have completed 3 years of apprenticeship and hold the Department of Education Junior Trade Certificate.

## **E119**

## **CONSTRUCTION TECHNICIAN COURSE**

This is a three year evening course in Building Construction and associated subjects in preparation for the Department of Education technological examinations.

**Course Duration**

3 years — 3 evenings per week.

**Objectives**

Elementary level examination at the end of the first year.  
Intermediate level examination at the end of the second year.  
Advanced level examination at the end of the third year.

**Entry Requirements**

Employment in the Construction Industry and possession of a Group or Intermediate Certificate with a Grade C in Mathematics and Mechanical Drawing, or better.

Exemption from First Year of the Course may be granted to an applicant who has achieved an acceptable level in Drawing and Building Subjects. Success in the Elementary Stage Examination is a requirement for entry into the Second Year of the Course.

Success in the Intermediate Stage Examination is a requirement for entry into the Final Year of the Course.

**Subjects**

**1st Year** Building Construction, Mathematics and Geometry.

**2nd Year** Building Construction, Builders Quantities, Land Surveying and Setting-out, Plane and Solid Geometry.

**3rd Year** Building Construction, Builders Quantities, Plane and Solid Geometry.

## **D120**

## **CRAFT TECHNICIAN COURSE IN BUILDING**

This course may be offered on a day-release and evening attendance basis in the 1991/92 session. See course E120 for further details.

## **E120**

## **CRAFT TECHNICIAN CERTIFICATE COURSE IN BUILDING**

This is a three-year part-time course. The course has been designed to enable students on completion of their craft studies to further their career prospects in the Building Industry.

**Entry Requirements**

Prospective students must have completed at least three years as an apprentice in a recognised building trade and hold a Department of Education Senior Trade Certificate or equivalent trade qualifications.



**Course of Study** **Stage I:**  
Building Construction I, Building Measurement, Estimating and Costing, Site Supervision and Building Science.

**Stage II:**  
Building Construction II, Building Quantities and Account Procedures, Surveying & Levelling, Structural Engineering and Site Management.

**Stage III:**  
Building Construction III, Building Quantities, Site Surveying and Setting-out, Building Services, Building Materials, Safety Legislation, Elements of Building Law and Human Resource Management.

**Award** **Craft Based Technician Certificate in Building (Dublin Institute of Technology)**

## **E121 CARPENTRY AND JOINERY — ADVANCED**

This course is designed to assist senior apprentices and craftsmen in preparing for the Senior Trade Certificate Examination of the Department of Education and the Advanced Certificate of the City & Guilds of London Institute.

**Duration** One year, two evenings per week.

**Subjects** Trade Theory, Trade Practice & Drawing.

**Entry Requirements** Prospective students must have passed the Junior Trade Certificate Examination in Carpentry and Joinery.

## **E122A WOODCUTTING MACHINISTS**

This course is designed to give students an appreciation of the practical use of woodcutting machines. Prospective students must be employed in a timber related trade. The course duration is one evening per week over one year.

## **E122B WOOD CUTTING MACHINISTS**

This course is designed to update the skills of Woodcutting Machinists in modern machining techniques including the use of a Computer based Numerically Controlled Router.

## **D123 SHORT COURSES IN WELDING PROCESSES — UPDATING OF SKILLS**

Short courses in various aspects of Welding may be held during the session in response to demands from industry. Enquiries should be directed to the Department of Metal Fabrication.

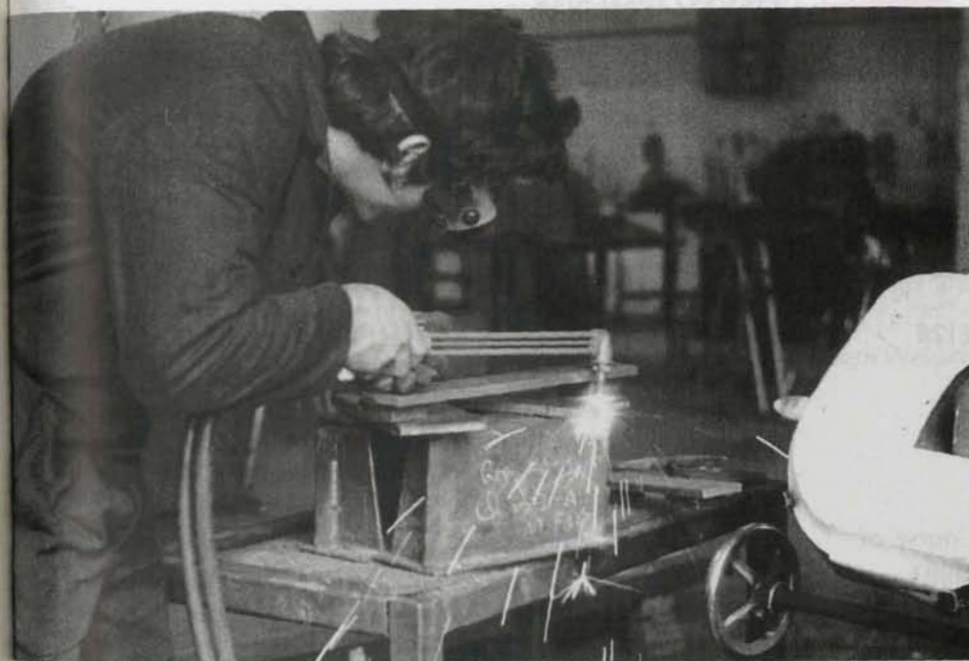
## **E123A COURSE IN WELDING — METAL ARC AND OXY-ACETYLENE**

This course is designed to meet the needs of craftsmen employed in the engineering or allied industries. The course covers both gas and electric-arc welding. Each course is of 22 weeks duration, meeting on two evenings each week from 7.00 p.m. to 10.00 p.m.

**Entrance Requirements** Employment as a craftsman in the engineering or allied trades.

## **E123B GAS SHIELDED ARC WELDING**

This is a special evening course designed to enable senior apprentices and craftsmen employed in engineering and allied trades to prepare for the IS200 Welding Certificate in low carbon steel and also for the BS 4872 Part II Certificate in aluminium (MIG and TIG process).





**Duration** One year. (One evening per week from 7.00 p.m. to 10.00 p.m.)

**Entrance Requirements** Employment in one of the engineering or allied trades.

### E123C **WELDING — ADVANCED (PIPE)**

This course is designed to assist craftsmen to prepare for the requirements of the I.S. 200 Irish Welding Certificate test. The course is of 26 weeks duration, meeting on two evenings per week from 7.00 p.m. to 10.00 p.m.

**Duration** One year (2 evenings per week).

**Entrance Requirements** Employment as a craftsman in the engineering or allied trades and have completed basic welding courses to an acceptable standard.

### E123D **WELDING ADVANCED (PLATE)**

This course is designed to assist craftsmen to prepare for the requirements of the I.S. 200 Irish Welding Certificate test. The course is of 26 weeks duration, meeting on two evenings per week from 7.00 p.m. to 10.00 p.m.

### E125 **CASTING TECHNOLOGY — MODERN DEVELOPMENTS**

**Objective** To provide Technician Engineers and Supervisors in the foundry industry with the skills applicable to new processes and production methods within the industry.

**Duration of Course** Two evenings per week for 8 weeks or other suitable arrangements.

**Entrance Requirements** Employment in the Foundry Industry.

### E128 **CRAFT TECHNICIAN CERTIFICATE COURSE IN METAL FABRICATION & WELDING**

This three-year evening course of study has been designed to enable senior apprentices and craftspersons to qualify as Craft Technicians and be capable of filling supervisory positions in the Metal Fabrication and Welding Industry.

**Course of Study** **Stage I:** Drawing, Materials & Process Technology, Mathematics and Engineering Science.

**Stage II:** Drawing, Process Technology and Testing, Mathematics, Engineering Science and Computer Studies.

**Stage III:** Plant Maintenance and Ancillary Services, Inspection Testing and Quality Control, Principles of Management, Mathematics, Computer-Aided Manufacture, Engineering Science.

### **Entrance Requirements**

Prospective students must have completed at least three years of an appropriate craft apprenticeship and have successfully completed the Senior Stage of the Department of Education Craft Certificate Examinations, written and practical, with at least one endorsement subject where such is offered.

### **Examination and Other Requirements**

At the end of each Stage, students will be required to sit a College examination in each subject, and pass it, before proceeding to the next Stage. A **DIT Craft Technician Certificate** will be awarded to students who have passed the Final Examinations in all subjects.

### E129A

### **SHEET METAL WORK**

This course is designed to assist Craftsmen to prepare for the Senior Trade Certificate Examinations of the Department of Education or the City and Guilds of London.

### **Duration**

One year, two evenings per week.

### **Subjects**

Trade Theory & Drawing.

### **Entry Requirements**

Prospective students must have completed 3 years of apprenticeship and hold the Department of Education Junior Trade Certificate.

### E129B

### **SHEET METAL WORK — UPDATING OF SKILLS**

This course is designed for the Sheetmetal work crafts person who require to update their practical skills.

### **Duration of Course**

Ten weeks, meeting on two evenings per week, Monday and Tuesday 7.00 p.m. to 9.30 p.m.

### **Course Content**

The use of numerical controlled Press Break and Modern Welding Processes as applied to the Sheet Metal Industry.

### **Entrance Requirements**

Employment in the Sheet Metal Industry.

### E130

### **METAL FABRICATION**

This course is designed to assist Senior Apprentices and Craftsmen to prepare for the Senior Trade Certificate Examination of the Department of Education or City and Guilds of London.



**Duration** One year, two evenings per week.

**Subjects** Trade Theory & Drawing.

**Entry Requirements** Prospective apprentices must have completed 3 years of apprenticeship and have passed the Junior Trade Certificate.

### E131 PLUMBING

This course is designed to assist Senior Apprentices and Craftsmen to prepare for the Senior Trade Certificate Examination of the Department of Education.

**Duration** One year, two evenings per week.

**Subjects** Trade Theory & Drawing.

**Entry Requirements** Prospective apprentices must have completed 3 years of apprenticeship and have passed the Junior Trade Certificate.

### D132 CRAFT TECHNICIAN CERTIFICATE COURSE IN PLUMBING

This course may be offered on a day release and evening attendance basis in the 1991/92 session. See course E132 for further details.

### E132 CRAFT TECHNICIAN CERTIFICATE COURSE IN PLUMBING

This three-year course of study has been designed to prepare craftspersons as craft technicians in Plumbing. Attendance is on three evenings per week (or alternatively on one day and one evening per week).

**Course of Study** **Stage I:** Hot and Cold Water Systems, Gas Installations, Sanitation and Drainage, Mathematics, Science, Drawing and Design.

**Stage II:** Mathematics, Science, Mechanics of Fluids, Heating Technology, Drawing and Design.

**Stage III:** Organisation and Management Techniques, Estimating and Quantities, Heating Technology, Welding Technology, Design Project.

**Entry Requirements** Prospective students must have completed at least three years of an appropriate craft apprenticeship and have successfully completed the Senior Stage of the Department of Education Craft Certificate Examination (Written and Practical) with endorsement where such is offered.

At the end of each stage, students will be required to be successful in a College examination in each subject before proceeding to the next stage. A **DIT Craft Technician Certificate** will be awarded to students who pass the final (Stage III) examination in all subjects. Students who are successful in the final examination may apply for corporate membership of the Institute of Plumbing and are also eligible for the Engineering Technician status of the Engineering Council.

### E139 ENGINEERING QUALITY CONTROL

This course provides a background for those who have responsibility for setting specifications for performance in manufacture or service industry and techniques for measuring their achievement.

**Objective** The City & Guilds of London Institute Parts I & II, 743 Quality Control Certificate.

**Course Duration** One year.

**Entrance Qualifications** Craft, Technician and Supervisory personnel with suitable background.

### E140 ENGINEERING SYSTEMS MAINTENANCE COMPETENCES

This course is designed for apprentices, craftsmen and technicians who already have a competence in General Maintenance Technology and Maintenance Organisation.

There is a choice of additional course elements available for City & Guilds Part II sub systems options as follows:

**E140C ENGINEERING SYSTEMS MAINTENANCE — PNEUMATICS**  
**E140D ENGINEERING SYSTEMS MAINTENANCE — HYDRAULICS**  
**E140F ENGINEERING SYSTEMS MAINTENANCE — ORGANISATION**  
**E140G ENGINEERING SYSTEMS MAINTENANCE — ELECTRICAL**

**Objective** City & Guilds of London Institute Part II — 214 Certificate on Engineering Systems Maintenance Competences. Candidates who successfully complete each element will be issued with a record of achievement and will qualify for the Certificate when they have achieved success in the two core elements and any three sub systems.

**Course Duration** One evening per week for each element.



## **E141 COMPUTER-AIDED ENGINEERING**

**Objective** A series of short courses for those requiring an understanding of new engineering technologies and their implications — City and Guilds 2302 scheme.

**E141A** Basic NC/CNC

**E141B** Basic CAD/CAM.

**E141C** Basic Robotics

**Course Duration** 10 weeks — one evening per week or an alternate daytime arrangement, depending on demand.

**Entrance Qualifications** Applicants should have a suitable engineering background as craftsmen, technicians or other technical positions.

### **E141D NC/CNC Machine Setting and Operation**

This is a one-year course to prepare mechanical engineering craftspersons for the City & Guilds 2303 Level III Certificate.

### **E141E NC/CNC — Part Programming**

**Objective** The City & Guilds of London Institute 2303 Level III Certificate.

**Course Duration** One year (one evening per week).

**Entry Qualifications** City and Guilds of London Institute 2303 Certificate (E141A).

### **E141F NC/CNC — Advanced Part Programming**

**Objective** The City & Guilds of London Institute 2304 Level IV Certificate.

**Course Duration** One year (one evening per week).

**Entrance Qualifications** City & Guilds of London Institute 2303 Level III Certificate. (E141A & B).

## **E141G COMPUTER AIDED DRAUGHTING**

**Objective** City & Guilds of London Institute 2304 Level III Certificate.

**Course Duration** One year (one evening per week).

**Entrance Qualification** Familiarity with conventional draughting skills.

## **E142 MECHANICAL ENGINEERING CRAFT STUDIES**

**Objective** The City & Guilds of London Institute Mechanical Engineering Craft Studies Certificate 205, Part II and Part III. Students take the appropriate Part II examinations at the end of the first year of the Course and Part III at the end of the second year.

**Course Duration** Two years (2 evenings per week)

**Subject Options** Two different options may be offered at Part II as follows:  
E142A Machining  
E142B Maintenance

Four different options may be offered at Part III as follows:  
E142C Factory Services (Maintenance)  
E142D Machining  
E142E Toolmaking  
E142F Inspection

*A First Prize  
winner at the  
Annual  
Prizegiving.*





**Entrance  
Qualifications**

**First Year:** Department of Education Junior Trade Certificate or equivalent and current attendance on block or day release courses.

**Second Year:** City & Guilds of London Institute 205, Part II or equivalent.

**E150**

**FLIGHT OPERATION OFFICER  
(DISPATCHER COURSE)**

This course provides instruction for flight operations officers in all operational aspects related to the preparation for commercial flights and the monitoring of all flights from a safety and efficiency viewpoint from the ground. It includes flight planning, aircraft loading, flight watch and operational considerations such as weight and runway limitations for the aircraft performance, weather, and ATC procedures.

The course follows the guidelines of ICAO standardised course 201.

**Duration**

One year, two evenings a week.

**Entrance  
Requirements**

A general knowledge of aviation appropriate to personnel employed in airlines or associated operations.

**E151**

**PRODUCTION PLANNING COURSE (I.A.T.A.)**

This course provides instruction for personnel employed in the Planning Departments of the Aeronautical Industry. The course covers Aircraft Organisation and Practice, and Aircraft Operational and Maintenance Planning.

**Entrance  
Requirements**

Personnel employed in Planning Departments in the Industry and holders of Part II Examinations of the City & Guilds of London Institute Certificate Course (258).

**Duration of  
Course**

1 year, 2 evenings per week.

**E152**

**MAINTENANCE ENGINEERS' LICENCES OF THE  
DEPARTMENT OF TOURISM & TRANSPORT**

**E152A**

'A' LICENCE — B.A.C.1 — 11 AC LICENCE

**E152B**

F27 MARK 050 AND P & W 125 ENGINE

**E152C**

'A' LICENCE — B737

**E152D**

'A' LICENCE — B747

**E152E**

'A' LICENCE — B727

**E152G**

'C' LICENCE — P & W JT8D

**E152H**

'C' LICENCE — P & W JT9D

**E152J**

'C' LICENCE — ROLLS ROYCE SPEY

**E152M**

'X' LICENCE — INSTRUMENTS

**E152N**

'X' LICENCE — ELECTRICAL

**E152P**

'X' LICENCE — RADIO

**E152Q**

'X' LICENCE — RADIO (RADAR ENDORSEMENT)

**E152K**

SHORTS 360 AIRCRAFT AND PT6 ENGINE

**E152R**

'X' LICENCES — AVIONICS

**E152S**

B 737 CONVERSION AND CFM 56 ENGINE.

**E152T**

B737 — 200/300 DIFFERENCES COURSE.

**E152U**

B737 — 400/500 DIFFERENCES COURSE.

The above courses provide instruction for Aircraft Maintenance Engineers wishing to take the appropriate licence examination of the Department of Tourism & Transport. The courses are of one year duration requiring attendance on two evenings per week.

**Entrance  
Requirements**

Basic Aeronautical Engineering Certificate in appropriate Category.

**E153**

**JET ENGINE OVERHAUL PROCEDURES**

This course provides instruction in Jet Engine design and overhaul procedures.

**Entrance  
Requirements**

Employment in the Industry.

**Duration of  
Course**

1 year, 1 evening per week.

**E154**

**AERONAUTICAL ENGINEERING CRAFT STUDIES**

**E154A**

**Stage 1**

This is a one year course requiring attendance for two evenings (6 hours) weekly per session. The course is designed to prepare students for Part I of the City and Guilds of London Institute Examinations in Aeronautical Engineering Industry.

**Entrance  
Requirements**

Day Vocational Group Certificate or Intermediate Certificate and be employed in the Aeronautical Engineering Industry.

**E154B**

**Stage 2  
(Mechanical)**

This one year course is designed to prepare students for Part II of the City & Guilds of London Examinations in Aeronautical Engineering Craft Studies (Course No. 208). Classes are held on three evenings per week from October to May.



**Entrance  
Requirements**

Part II City & Guilds Aer Engineering Craft Studies or Aeronautical Engineering Occupational Competences.

**E155**

**BASIC AERONAUTICAL ENGINEERING  
CERTIFICATES**

**E155B**  
**E155C**  
**E155D**  
**E155E**  
**E155F**  
**E155G**  
**E155H**

**AIRFRAMES PRESSURISED (B.A.E.C.2)**  
**PISTON ENGINES (B.A.E.C.3)**  
**TURBO — PROP & TURBO — JET ENGINES (B.A.E.C.4)**  
**HELICOPTERS (LESS ENGINES) (B.A.E.C.5)**  
**ELECTRICAL (B.A.E.C.6)**  
**RADIO (B.A.E.C.7)**  
**INSTRUMENTS (B.A.E.C.8)**

The above courses are one year duration, requiring attendance for two evenings (6 hours weekly per session). The courses are designed to prepare students for the Basic Aeronautical Engineering Certificate examinations of the Department of Tourism & Transport.

**Entrance  
Requirements**

Not less than two years employment in the Aeronautical Engineering Industry.

**E156A**

**PRIVATE AIRCRAFT PILOT'S LICENCE**

This course provides instruction in Meteorology, Navigation, Air Legislation, Theory of Flight and Aircraft Limitations, for personnel wishing to take the Department of Tourism & Transport Private Pilots Licence.

**Duration of  
Course**

1 year, one evening per week.

**E156B**

**PRIVATE PILOTS LICENCE (INSTRUMENT RATING)**

This course provides instruction for personnel who already hold a Private Licence and wish to take the Department of Tourism and Transport Private Licence Instrument Rating.

**Duration of  
Course**

1 year, 1 evening per week.

**E165**

**MOTOR CYCLE MECHANICS**

**Objective**  
**Course**  
**Duration**  
**Subjects**

The City & Guilds of London Institute Craft Certificate 389.  
2 years of 30 weeks each year, 3 evenings (9 hours) each week.  
Motor Cycle Technology, Electricity, Electronics, Engineering Science, Mathematics, Technical Drawing, Workshop Practice, General Studies.

**Entrance  
Requirements**

Employment as a motor cycle mechanic.

**E168**

**CONSTRUCTION PLANT FITTERS**

**Objective**

The City & Guilds of London Institute Full Craft Certificate 620, Part III.

**Course  
Duration**

1 year of 30 weeks, 2 evenings (6 hours) each week.

**Subjects**

Power Units and Associated Systems, Vehicle Systems and Vehicle Recovery.

**Entrance  
Qualifications**

The City & Guilds of London Institute 620, Certificate Part III.

**E170**

**MOTOR VEHICLE PARTS PERSONNEL**

**Objective**

The City & Guilds of London Institute 384, Vehicle Parts Personnel, Part I.

**E173A**

**MOTOR VEHICLE CRAFT STUDIES — DIAGNOSTIC  
TECHNIQUES**

**Objective**

The City & Guilds of London Institute 381 Part III.

**Course  
Duration**

Four years, 30 weeks each year.

**Attendance**

Three evenings (9 hours) each week.





<b>Subjects</b>	Diagnostic Techniques (engine), Diagnostic Techniques (transmission), Automatic Gearboxes.
<b>Entrance Qualifications</b>	City & Guilds of London Institute 381 Part II or equivalent.
<b>E173B</b>	<b>MOTOR VEHICLE CRAFT STUDIES — COMPRESSED AIR SYSTEMS; C.I. ENGINES; FUEL INJECTION EQUIPMENT</b>
<b>Objective</b>	The City & Guilds of London Institute 381 Part III.
<b>Course Duration</b>	One year of 30 weeks.
<b>Attendance</b>	Three evenings (9 hours) each week.
<b>Subjects</b>	Compressed Air Brakes, Compression Ignition Engines, Fuel Injection Equipment, C.I. Engines.
<b>Entrance Qualifications</b>	City & Guilds of London Institute 381 Part II or equivalent.
<b>E173C</b>	<b>MOTOR VEHICLE CRAFT STUDIES — ELECTRICITY/ELECTRONICS</b>
<b>Attendance</b>	Three evenings (9 hours) each week.
<b>Objective</b>	The City & Guilds of London Institute 381 Part III.
<b>Course Duration</b>	One year of 30 weeks.
<b>Subjects</b>	Motor Vehicle Electricity and Motor Vehicle Electronics.
<b>Entrance Qualifications</b>	City & Guilds of London Institute 381 Part II or equivalent.
<b>D174</b>	<b>AUTO-ENGINEERING TECHNICIANS</b>
<b>Objective</b>	Department of Education Advanced Motor Car Engineering Technological Certificate and the City & Guilds of London Institute Motor Vehicle Technicians Full Technological Certificate (390), Parts II and III.
<b>Duration of Course</b>	1 year part-time (7 hours) and 2 evenings (6 hours) each week for 38 weeks.

<b>Subjects</b>	Motor Car Engineering, Automobile Electricity/Electronics, Heat Engines, Applied Mechanics, Garage Organisation and Management and Computer Studies.
<b>Entrance Qualifications</b>	Department of Education Senior Trade Certificate with endorsement subjects and Department of Education Intermediate Motor Car Engineering Technological Certificate (2 subjects) or the City & Guilds of London Institute 390, Part I.
<b>D176</b>	<b>AUTOMOBILE ENGINEERING UPDATING COURSES — CONTINUING EDUCATION PROGRAMME</b>
<b>Objective</b>	Updating of trade personnel in modern developments relating to engines, transmission systems and electronics.
<b>Duration of Course</b>	Two days to a few weeks — day and/or evening.
<b>Entry Requirements</b>	Senior Trade Certificate in Motor Engineering.
<b>E176</b>	<b>AUTOMOBILE ENGINEERING UPDATING COURSE</b>
<b>Objective</b>	Continuing Education Programme. The City & Guilds of London Institute 381, Part III, Modular.
<b>Course Duration</b>	Short courses of 3 weeks duration, over two evenings per week, on modern developments and techniques in the industry.
<b>Entrance Qualifications</b>	Department of Education Senior Trade Certificate.



**E177** **AUTOMOBILE ENGINEERING COURSE**  
**Objective** Department of Education Elementary, Intermediate and Advanced Technological Certificates in Motor Car Engineering.

**Duration of Course** 5 years of 30 weeks each year, 4 evenings (12 hours) each week.

**Subjects** Motor Car Engineering, Engineering Science and Mathematics, Automobile Electricity, Engineering Laboratory, General Studies including English, Drawing and Sketching, Garage Organisation and Management.

**Entrance Requirements** Day Vocational Group Certificate or Intermediate Certificate with Honours in certain specified subjects.

**E178** **MOTOR INDUSTRY MANAGEMENT STUDIES**  
This three year course prepares students for membership examinations of the Institute of the Motor Industry.

**Subjects** Motor Industry Management, Motor Industry Law, Motor Industry Administration and Organisation, Accountancy, Computer Studies.

**Entrance Requirements** Leaving Certificate or equivalent qualification. Exemptions to stages of the course may be available to suitably qualified candidates.

**E179** **ROAD TRANSPORT STUDIES**  
This three year course prepares students for the membership examinations of the Institute of Road Transport Engineers and Certificate of Professional Competence of the Department of the Environment.

**Subjects** Management Supervision and Practice, Financial and Commercial Aspects, Workshop Organisation and Administration, Legal Aspects of Motor Trade and Transport Legislation - Technical and Administrative, Transport Operational Principles, Computer Studies.

**Entrance Requirements** The Leaving Certificate or equivalent qualifications. Exemptions from stages of the course may be available to suitably qualified candidates.

**E180** **PRINTING AND GRAPHIC COMMUNICATIONS**  
**BOOK AND ARCHIVE RESTORATION**

The purpose of this one year course is to train students in the repair and presentation of books, documents, etc. It is of particular value to the staffs of hand bindaries, local record offices and those libraries concerned with the care of manuscripts and archives. Attendance is required on one evening per week. Students will be required to provide some of the materials used.

**E182** **PRINT FINISHING**  
This one year course covers techniques and materials used in the production of books, magazines, and a wide range of miscellaneous work handled in the print finishing department. Stress is laid on hand and machine operations, e.g., wire stitching, sewing and folding, machine and hand feeding, gathering, glueing and mounting.

**E183** **INTRODUCTION TO PRINTING TECHNOLOGY**  
A one year course to prepare students for the Introduction to Printing Technology examinations to be accepted as a candidate for the following:—  
(a) Estimating examination of the British Printing Industries Federation.  
(b) Printing Office Procedure examination of the British Printing Industries Federation.

**E184** **COST ACCOUNTANCY FOR PRINTERS**  
A one year course designed to prepare students for the examinations of the British Printing Industries Federation.

**Entrance Qualifications** Royal Society of Arts Certificate in Accounting and Office Procedure, or equivalent.



### **E185 ESTIMATING FOR PRINTERS**

A one year course designed to prepare students for the examination of the British Printing Industries Federation.

**Entrance Qualifications** Leaving Certificate and Introduction to Printing Technology of the British Printing Industries Federation or equivalent.

### **E186 PAPER TECHNOLOGY**

A two-year course for personnel employed in Printing, Paper and Packaging Industries. Students are prepared for the examination of the National Association of Paper Merchants (London).

**Entrance Qualifications** Leaving Certificate or equivalent.

### **E187 GRAPHIC COMMUNICATIONS — DESIGN**

This is a one-year course to prepare students for the Design modules of the City & Guilds of London Institute 524 Certificate in Graphic Communications.

**Entrance Qualifications** Leaving Certificate or Department of Education Senior Certificate in a graphic arts subject or other equivalent qualification.



*President Robinson talks to some Graphic Design students during her visit to the College.*

### **E188 INTRODUCTION TO MANAGEMENT (GRAPHIC INDUSTRIES)**

**Duration of Course** A one year course to prepare students for the City & Guilds of London Institute Certificate in Introduction to Management (Graphic Industries).

**Entrance Qualifications** Department of Education Senior trade Certificate in a Printing discipline or an equivalent qualification.

### **E189 PACKAGING TECHNOLOGY**

This course is intended for management and administrative personnel engaged in packaging and related industries. Students are prepared for the examinations of the Institute of Packaging.

**Entrance Qualifications** Employment in the Packaging Industry.

### **E191 BOOKBINDING AND PRINT FINISHING RETRAINING**

This one year evening course for personnel employed in the Printing Industry provides instruction in the latest techniques, and covers the whole range of materials and technology used in print finishing processes.

### **E192 LITHOGRAPHY AND PHOTO-LITHOGRAPHY RETRAINING**

This is a one year course for personnel employed in the Printing Industry provides instruction in the latest techniques of lithographic plate making and press operation.

### **E195A ELECTRONIC COMPOSITION**

This one year evening course for suitably qualified personnel, deals with a wide range of electronic composition equipment.



**E195B**

## **SCANNING/PRINT PLANNING**

This is a one year course for suitably qualified personnel, covering aspects of scanning and print planning.

**E195C**

## **DESK TOP PUBLISHING**

This course is for personnel requiring training in Desk Top Publishing. Design is an important feature of the course. A second year course may be available for those wishing to pursue computer aided design.

**E196**

## **PRINT SALES**

A one year course to prepare students for the B.P.I.F. Sales Examination.

**Entrance  
Requirements**

Employed in the Graphic Communication Industry.

**D200**

## **SCREEN PROCESS PRINTING**

This is a two year course involving attendance on two half days per week over the session. It trains students in the operation of screen printing presses and in stencil making techniques.

**E200**

## **GRAPHIC COMMUNICATIONS — SCREEN PRINTING**

This is a one year course which prepares students for the screen modules of the City and Guilds 524 Certificate in Graphic Communications.



INSTITIÚID  
TEICNEOLAÍOCHTA  
BHAILE ÁTHA CLIATH



COLÁISTE  
TEICNEOLAÍOCHTA SRÁID  
BHOLTÚIN



CITY OF DUBLIN  
VOCATIONAL EDUCATIONAL COMMITTEE

